



Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

Cisco Systems, Inc.

www.cisco.com

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

Text Part Number: 78EE117C99-137896592

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

In your requests please include the following reference number **78EE117C99-137896592**

Contents

1.1 abbrev 1.0.7

1.1.1 Available under license

1.2 abbrev 1.0.7

1.2.1 Available under license

1.3 accepts 1.2.13

1.3.1 Available under license

1.4 actionmailer 4.1.0

1.4.1 Available under license

1.5 actionpack 4.1.0

1.5.1 Available under license

1.6 actionview 4.1.0

1.6.1 Available under license

1.7 active-x-obfuscator 0.0.1

1.7.1 Available under license

1.8 activemodel 4.1.0

1.8.1 Available under license

1.9 activerecord 4.1.0

1.9.1 Available under license

1.10 activesupport 4.1.0

1.10.1 Available under license

1.11 addressable 2.4.0

1.11.1 Available under license

1.12 adm-zip 0.4.4

1.12.1 Available under license

1.13 adm-zip_deflater.js 0.4.4

1.13.1 Available under license

- 1.14 airbrake 5.1.0**
- 1.15 airbrake-js-client 0.5.8**
 - 1.15.1 Available under license
- 1.16 airbrake-ruby 1.2.3**
 - 1.16.1 Available under license
- 1.17 airline 0.7**
 - 1.17.1 Available under license
- 1.18 akka-actor 2.10-2.3.9**
 - 1.18.1 Available under license
- 1.19 akka-remote 2.3.4**
 - 1.19.1 Available under license
- 1.20 akka:akka-slf4j_2.10 2.3.4**
 - 1.20.1 Available under license
- 1.21 amdefine 1.0.0**
 - 1.21.1 Available under license
- 1.22 amdefine 0.1.0**
 - 1.22.1 Available under license
- 1.23 angular 1.3.11**
 - 1.23.1 Available under license
- 1.24 angular-animate 1.3.11**
 - 1.24.1 Available under license
- 1.25 angular-bootstrap 0.13.0**
 - 1.25.1 Available under license
- 1.26 angular-cache 3.0.3**
 - 1.26.1 Available under license
- 1.27 angular-dialog-service 5.2.8**
 - 1.27.1 Available under license
- 1.28 angular-google-analytics 0.0.9**
 - 1.28.1 Available under license
- 1.29 angular-google-maps 2.0.6**
 - 1.29.1 Available under license
- 1.30 angular-nl2br-filter 1.0.3**
 - 1.30.1 Available under license
- 1.31 angular-qrcode 5.1.0**
- 1.32 angular-resource 1.3.11**
 - 1.32.1 Available under license
- 1.33 angular-route 1.3.11**
 - 1.33.1 Available under license
- 1.34 angular-sanitize 1.3.11**

- 1.34.1 Available under license
- 1.35 angular-spinner 0.8.0**
- 1.36 angular-ui-router 0.2.12**
 - 1.36.1 Available under license
- 1.37 angular-xeditable 0.1.8**
 - 1.37.1 Available under license
- 1.38 ansi 0.3.0**
 - 1.38.1 Available under license
- 1.39 ansi-escapes 1.1.0**
 - 1.39.1 Available under license
- 1.40 ansi-green 0.1.1**
 - 1.40.1 Available under license
- 1.41 ansi-regex 2.0.0**
 - 1.41.1 Available under license
- 1.42 ansi-regex 2.0.0**
 - 1.42.1 Available under license
- 1.43 ansi-styles 2.1.0**
 - 1.43.1 Available under license
- 1.44 ansi-wrap 0.1.0**
 - 1.44.1 Available under license
- 1.45 ansible 1.9.2**
 - 1.45.1 Available under license
- 1.46 ansicolors 0.2.1**
 - 1.46.1 Available under license
- 1.47 ant 1.6.5**
 - 1.47.1 Available under license
- 1.48 ANTLR 2.7.7**
 - 1.48.1 Available under license
- 1.49 ANTLR StringTemplate 3.2.1**
 - 1.49.1 Available under license
- 1.50 antlr-runtime 3.4**
 - 1.50.1 Available under license
- 1.51 anymatch 1.3.0**
 - 1.51.1 Available under license
- 1.52 aopalliance-repackaged 2.4.0-b09**
 - 1.52.1 Available under license
- 1.53 Apache Commons Collections 3.2.1.**
 - 1.53.1 Available under license
- 1.54 Apache Commons EL 1.0.0 :1.0.0.v200806031608**

- 1.54.1 Available under license
- 1.55 Apache Derby 10.10.1.1**
 - 1.55.1 Available under license
- 1.56 Apache HttpClient 4.3.5**
 - 1.56.1 Available under license
- 1.57 Apache Jakarta Commons HttpClient 3.0.1**
 - 1.57.1 Available under license
- 1.58 archy 1.0.0**
 - 1.58.1 Available under license
- 1.59 are-we-there-yet 1.0.4**
 - 1.59.1 Available under license
- 1.60 arel 5.0.1.20140414130214**
- 1.61 argparse 1.0.3**
 - 1.61.1 Available under license
- 1.62 arr-diff 1.1.0**
 - 1.62.1 Available under license
- 1.63 arr-flatten 1.0.1**
 - 1.63.1 Available under license
- 1.64 arr-pm 0.0.10**
 - 1.64.1 Available under license
- 1.65 array-differ 1.0.0**
 - 1.65.1 Available under license
- 1.66 array-filter 0.0.1**
 - 1.66.1 Available under license
- 1.67 array-map 0.0.0**
 - 1.67.1 Available under license
- 1.68 array-reduce 0.0.0**
 - 1.68.1 Available under license
- 1.69 array-slice 0.2.3**
 - 1.69.1 Available under license
- 1.70 array-uniq 1.0.2**
 - 1.70.1 Available under license
- 1.71 array-unique 0.2.1**
 - 1.71.1 Available under license
- 1.72 ASM 4.0**
 - 1.72.1 Available under license
- 1.73 ASM Core 4.0**
 - 1.73.1 Available under license
- 1.74 asn1 0.1.11**

1.74.1 Available under license

1.75 assert-plus 0.1.5

1.75.1 Available under license

1.76 async 1.4.0

1.77 async 0.2.10-0

1.77.1 Available under license

1.78 async 0.2.10

1.78.1 Available under license

1.79 async-each 0.1.6

1.79.1 Available under license

1.80 attr_encrypted 1.3.5

1.80.1 Available under license

1.81 Avro-avro 1.7.5 :Java

1.81.1 Available under license

1.82 aws-sign2 0.5.0

1.82.1 Available under license

1.83 aws-sign2 0.5.0

1.83.1 Available under license

1.84 backports 3.6.8

1.84.1 Available under license

1.85 balanced-match 0.3.0

1.85.1 Available under license

1.86 balanced-match 0.2.0

1.86.1 Available under license

1.87 base64-url 1.2.1

1.87.1 Available under license

1.88 base64id 0.1.0

1.88.1 Available under license

1.89 basic-auth 1.0.0

1.89.1 Available under license

1.90 basic-auth 1.0.3

1.90.1 Available under license

1.91 basic-auth-connect 1.0.0

1.91.1 Available under license

1.92 batch 0.5.2

1.92.1 Available under license

1.93 bcrypt-ruby 3.1.7

1.93.1 Available under license

1.94 Bean Validation API 1.1.0.Final

1.94.1 Available under license

1.95 Beanshell 2.0b4

1.95.1 Available under license

1.96 beeper 1.1.0

1.96.1 Available under license

1.97 better_errors 2.1.1

1.97.1 Available under license

1.98 binary 0.3.0

1.98.1 Available under license

1.99 binary-extensions 1.3.1

1.99.1 Available under license

1.100 bi 0.9.4

1.100.1 Available under license

1.101 bi 1.0.0

1.101.1 Available under license

1.102 block-stream 0.0.8

1.102.1 Available under license

1.103 bluebird 2.9.34

1.103.1 Available under license

1.104 bluebird 2.3.11

1.104.1 Available under license

1.105 body-parser 1.13.3

1.105.1 Available under license

1.106 bonecp 0.8.0.RELEASE

1.106.1 Available under license

1.107 boom 2.10.1

1.107.1 Available under license

1.108 boom 2.8.0

1.108.1 Available under license

1.109 boom 0.4.2

1.109.1 Available under license

1.110 boon-boon-bundle 0.33

1.110.1 Available under license

1.111 bootstrap-bower 0.13.2

1.111.1 Available under license

1.112 bootstrap-sass 3.1.1.0

1.112.1 Available under license

1.113 bosun 0.2.4

1.113.1 Available under license

- 1.114 Bower 1.7.9**
 - 1.114.1 Available under license
- 1.115 bower-endpoint-parser 0.2.2**
- 1.116 bower-json 0.4.0**
- 1.117 bower-logger 0.2.2**
- 1.118 bower-registry-client 1.0.0**
 - 1.118.1 Available under license
- 1.119 brace-expansion 1.1.0**
 - 1.119.1 Available under license
- 1.120 brace-expansion 1.1.2**
 - 1.120.1 Available under license
- 1.121 braces 1.8.2**
 - 1.121.1 Available under license
- 1.122 bsh 2.0b4**
 - 1.122.1 Available under license
- 1.123 bson 4.1.0**
 - 1.123.1 Available under license
- 1.124 bson_ext 1.5.1**
 - 1.124.1 Available under license
- 1.125 buffers 0.1.1**
 - 1.125.1 Available under license
- 1.126 builder 3.2.2**
 - 1.126.1 Available under license
- 1.127 builtin-modules 1.1.0**
 - 1.127.1 Available under license
- 1.128 builtin-status-codes 1.0.0**
 - 1.128.1 Available under license
- 1.129 bundler 1.11.2**
 - 1.129.1 Available under license
- 1.130 bytes 2.1.0**
 - 1.130.1 Available under license
- 1.131 cabin 0.7.1**
 - 1.131.1 Available under license
- 1.132 cabin 0.8.1**
 - 1.132.1 Available under license
- 1.133 camelcase 2.0.1**
 - 1.133.1 Available under license
- 1.134 camelcase-keys 2.0.0**
 - 1.134.1 Available under license

- 1.135 cancancan 1.13.1**
 - 1.135.1 Available under license
- 1.136 cardinal 0.4.4**
 - 1.136.1 Available under license
- 1.137 caseless 0.9.0**
 - 1.137.1 Available under license
- 1.138 caseless 0.11.0**
 - 1.138.1 Available under license
- 1.139 CFPropertyList 2.2.8**
- 1.140 chainsaw 0.1.0**
 - 1.140.1 Available under license
- 1.141 chalk 1.1.1**
 - 1.141.1 Available under license
- 1.142 childprocess 0.5.6**
 - 1.142.1 Available under license
- 1.143 childprocess 0.5.9**
- 1.144 chill 0.5.0**
 - 1.144.1 Available under license
- 1.145 chill-java 0.5.0**
 - 1.145.1 Available under license
- 1.146 chill-protobuf 0.7.0**
 - 1.146.1 Available under license
- 1.147 chmodr 1.0.2**
 - 1.147.1 Available under license
- 1.148 chokidar 1.1.0**
 - 1.148.1 Available under license
- 1.149 clamp 0.6.5**
 - 1.149.1 Available under license
- 1.150 ClassMate 1.0.0**
 - 1.150.1 Available under license
- 1.151 cli-cursor 1.0.2**
 - 1.151.1 Available under license
- 1.152 cli-width 1.1.0**
 - 1.152.1 Available under license
- 1.153 clone 0.2.0**
 - 1.153.1 Available under license
- 1.154 clone 1.0.2**
 - 1.154.1 Available under license
- 1.155 clone-stats 0.0.1**

1.155.1 Available under license
1.156 code-point-at 1.0.0
1.156.1 Available under license
1.157 collectd 5.5.0
1.157.1 Available under license
1.158 colorbrewer2 2.0
1.158.1 Available under license
1.159 colorize 0.7.7
1.159.1 Available under license
1.160 colors 0.6.2
1.160.1 Available under license
1.161 com.cisco.xmp.osgi.cargo-core-api-util 1.0.0
1.161.1 Available under license
1.162 combined-stream 1.0.5
1.162.1 Available under license
1.163 combined-stream 0.0.7
1.163.1 Available under license
1.164 commander 2.1.0
1.164.1 Available under license
1.165 commander 2.8.1
1.165.1 Available under license
1.166 commons compress 1.0
1.166.1 Available under license
1.167 Commons IO 2.4
1.167.1 Available under license
1.168 Commons Logging 1.1.1
1.168.1 Available under license
1.169 Commons Logging 1.1.1
1.169.1 Available under license
1.170 Commons Logging 1.1.3
1.170.1 Available under license
1.171 commons-beanutils 1.7
1.171.1 Available under license
1.172 commons-beanutils-core 1.8.0
1.172.1 Available under license
1.173 commons-cli 1.2
1.173.1 Available under license
1.174 commons-codec 1.6
1.174.1 Available under license

- 1.175 commons-compress 1.4.1**
 - 1.175.1 Available under license
- 1.176 commons-configuration 1.6 1.6**
 - 1.176.1 Available under license
- 1.177 commons-lang 2.6**
 - 1.177.1 Available under license
- 1.178 commons-lang3 3.3.2**
 - 1.178.1 Available under license
- 1.179 commons-math 2.2**
 - 1.179.1 Available under license
- 1.180 commons-math3 3.1.1**
 - 1.180.1 Available under license
- 1.181 commons-net 2.2**
 - 1.181.1 Available under license
- 1.182 commons-pool 1.6**
 - 1.182.1 Available under license
- 1.183 commons-pool2 2.2**
 - 1.183.1 Available under license
- 1.184 compress-lzf 1.0.0**
 - 1.184.1 Available under license
- 1.185 compressible 2.0.5**
 - 1.185.1 Available under license
- 1.186 concat-map 0.0.1**
 - 1.186.1 Available under license
- 1.187 config-1.2.1 1.2.1**
 - 1.187.1 Available under license
- 1.188 config-chain 1.1.9**
 - 1.188.1 Available under license
- 1.189 config-magic 0.9**
- 1.190 configstore 0.3.2**
- 1.191 connect-timeout 1.6.2**
 - 1.191.1 Available under license
- 1.192 content-type 1.0.1**
 - 1.192.1 Available under license
- 1.193 cookie 0.1.3**
 - 1.193.1 Available under license
- 1.194 cookie-parser 1.3.5**
 - 1.194.1 Available under license
- 1.195 cookie-signature 1.0.6**

1.195.1 Available under license
1.196 core-util-is 1.0.1
1.196.1 Available under license
1.197 corefines 1.9.0
1.197.1 Available under license
1.198 crack 0.4.3
1.198.1 Available under license
1.199 crc 3.3.0
1.199.1 Available under license
1.200 cryptiles 0.2.2
1.200.1 Available under license
1.201 cryptiles 2.0.5
1.201.1 Available under license
1.202 csrf 3.0.0
1.202.1 Available under license
1.203 csurf 1.8.3
1.203.1 Available under license
1.204 ctype 0.5.3
1.204.1 Available under license
1.205 Curator Client 2.4.0
1.205.1 Available under license
1.206 curator-framework-2.4.0 2.4.0
1.206.1 Available under license
1.207 curator-recipes-2.4.0 2.4.0
1.207.1 Available under license
1.208 cvs 1.11.23 :11.6.amzn1
1.208.1 Available under license
1.209 D3 3.4.8
1.209.1 Available under license
1.210 daemons 1.1.9
1.210.1 Available under license
1.211 daemons 1.2.3
1.212 daemons/setup.rb 1.1.9
1.212.1 Available under license
1.213 dalli 2.7.6
1.213.1 Available under license
1.214 dateformat 1.0.12
1.214.1 Available under license
1.215 db4-cxx 4.7.25 :17.el6

- 1.215.1 Available under license
- 1.216 dbus 1.2.24**
 - 1.216.1 Available under license
- 1.217 dbus-glib 0.86**
 - 1.217.1 Available under license
- 1.218 dcjs 1.6.0**
 - 1.218.1 Available under license
- 1.219 debug 0.7.4**
 - 1.219.1 Available under license
- 1.220 debug 2.2.0**
 - 1.220.1 Available under license
- 1.221 decompress-zip 0.1.0**
 - 1.221.1 Available under license
- 1.222 deep-equal 1.0.1**
 - 1.222.1 Available under license
- 1.223 deep-extend 0.2.11**
 - 1.223.1 Available under license
- 1.224 defaults 1.0.3**
 - 1.224.1 Available under license
- 1.225 delayed-stream 1.0.0**
 - 1.225.1 Available under license
- 1.226 delayed-stream 0.0.5**
 - 1.226.1 Available under license
- 1.227 delegates 0.1.0**
 - 1.227.1 Available under license
- 1.228 depd 1.0.1**
 - 1.228.1 Available under license
- 1.229 deprecated 0.0.1**
 - 1.229.1 Available under license
- 1.230 destroy 1.0.3**
 - 1.230.1 Available under license
- 1.231 device-mapper-multipath-libs 0.4.9 :56.e16**
 - 1.231.1 Available under license
- 1.232 device-two-factor 2.0.1**
 - 1.232.1 Available under license
- 1.233 devise 3.5.2**
- 1.234 devise-token-authenticatable 0.4.7**
 - 1.234.1 Available under license
- 1.235 devise_invalidatable 0.0.2**

- 1.236 dhcp 4.1.1**
 - 1.236.1 Available under license
- 1.237 dhcp-common 4.1.1 :31.P1.el6**
 - 1.237.1 Available under license
- 1.238 di 0.0.1**
 - 1.238.1 Available under license
- 1.239 disruptor-3.3.0 3.3.0**
 - 1.239.1 Available under license
- 1.240 domain_name 0.5 :20160310**
 - 1.240.1 Available under license
- 1.241 druid 2.2.1**
 - 1.241.1 Available under license
- 1.242 druid-api-druid-api 0.3.17**
 - 1.242.1 Available under license
- 1.243 duplexer2 0.0.2**
 - 1.243.1 Available under license
- 1.244 duplexify 3.4.2**
 - 1.244.1 Available under license
- 1.245 ed 1.1 :3.3.8.amzn1**
 - 1.245.1 Available under license
- 1.246 ee-first 1.1.1**
 - 1.246.1 Available under license
- 1.247 elasticsearch 1.0.17**
 - 1.247.1 Available under license
- 1.248 elasticsearch-api 1.0.17**
 - 1.248.1 Available under license
- 1.249 elasticsearch-model 0.1.8**
 - 1.249.1 Available under license
- 1.250 elasticsearch-rails 0.1.8**
 - 1.250.1 Available under license
- 1.251 elasticsearch-transport 1.0.17**
 - 1.251.1 Available under license
- 1.252 elephant-bird-core 4.5**
- 1.253 elephant-bird-elephant-bird 4.5**
 - 1.253.1 Available under license
- 1.254 encryptor 1.3.0**
 - 1.254.1 Available under license
- 1.255 end-of-stream 1.1.0**
 - 1.255.1 Available under license

- 1.256 end-of-stream 0.1.5**
 - 1.256.1 Available under license
- 1.257 error-ex 1.3.0**
 - 1.257.1 Available under license
- 1.258 erubis 2.7.0**
 - 1.258.1 Available under license
- 1.259 escape-html 1.0.2**
 - 1.259.1 Available under license
- 1.260 escape-string-regexp 1.0.3**
 - 1.260.1 Available under license
- 1.261 etag 1.7.0**
 - 1.261.1 Available under license
- 1.262 etcd-client 0.33**
- 1.263 eventmachine 1.0.7**
 - 1.263.1 Available under license
- 1.264 eventmachine 1.0.3**
 - 1.264.1 Available under license
- 1.265 eventmachine 1.2.0.1**
 - 1.265.1 Available under license
- 1.266 execjs 2.6.0**
- 1.267 exit-hook 1.1.1**
 - 1.267.1 Available under license
- 1.268 expand-brackets 0.1.4**
 - 1.268.1 Available under license
- 1.269 expand-range 1.8.1**
 - 1.269.1 Available under license
- 1.270 expat 2.0.1**
 - 1.270.1 Available under license
- 1.271 express-session 1.11.3**
 - 1.271.1 Available under license
- 1.272 extend 3.0.0**
 - 1.272.1 Available under license
- 1.273 factor 2.4.3 :puppetlabs1**
 - 1.273.1 Available under license
- 1.274 factor 2.4.3 :el7**
 - 1.274.1 Available under license
- 1.275 factory_girl_rails 4.4.1**
 - 1.275.1 Available under license
- 1.276 faker 1.4.3**

1.276.1 Available under license
1.277 fancy-log 1.1.0
1.277.1 Available under license
1.278 faraday 0.9.2
1.278.1 Available under license
1.279 ffi 1.9.10
1.279.1 Available under license
1.280 ffi 1.9.8
1.280.1 Available under license
1.281 figures 1.4.0
1.281.1 Available under license
1.282 filename-regex 2.0.0
1.282.1 Available under license
1.283 finalhandler 0.4.0
1.283.1 Available under license
1.284 find-index 0.1.1
1.284.1 Available under license
1.285 find-up 1.1.0
1.285.1 Available under license
1.286 first-chunk-stream 1.0.0
1.286.1 Available under license
1.287 flagged-respawn 0.3.1
1.287.1 Available under license
1.288 font-awesome-rails 4.4.0
1.288.1 Available under license
1.289 for-in 0.1.4
1.289.1 Available under license
1.290 for-own 0.1.3
1.290.1 Available under license
1.291 forever-agent 0.5.2
1.291.1 Available under license
1.292 form-data 1.0.0-rc2
1.292.1 Available under license
1.293 form-data 0.1.4
1.293.1 Available under license
1.294 fping 2.4b2
1.294.1 Available under license
1.295 fpm 1.3.3
1.295.1 Available under license

1.296 fresh 0.3.0

1.296.1 Available under license

1.297 fs-write-stream-atomic 1.0.5

1.297.1 Available under license

1.298 fstream 1.0.8

1.298.1 Available under license

1.299 fstream-ignore 1.0.3

1.299.1 Available under license

1.300 gauge 1.2.2

1.300.1 Available under license

1.301 gaze 0.5.2

1.301.1 Available under license

1.302 generate-function 2.0.0

1.302.1 Available under license

1.303 generate-object-property 1.2.0

1.303.1 Available under license

1.304 get-stdin 4.0.1

1.304.1 Available under license

1.305 giflib 4.1.6 :ICS

1.305.1 Available under license

1.306 github 0.2.4

1.306.1 Available under license

1.307 glob 5.0.14

1.307.1 Available under license

1.308 glob 3.2.11

1.308.1 Available under license

1.309 glob-base 0.3.0

1.309.1 Available under license

1.310 glob-parent 2.0.0

1.310.1 Available under license

1.311 glob-stream 3.1.18

1.311.1 Available under license

1.312 glob-watcher 0.0.6

1.312.1 Available under license

1.313 glob2base 0.0.12

1.313.1 Available under license

1.314 globule 0.1.0

1.314.1 Available under license

1.315 glog 0.3.3

- 1.315.1 Available under license
- 1.316 glogg 1.0.0**
 - 1.316.1 Available under license
- 1.317 got 3.3.1**
 - 1.317.1 Available under license
- 1.318 graceful-fs 3.0.8**
 - 1.318.1 Available under license
- 1.319 graceful-readlink 1.0.1**
 - 1.319.1 Available under license
- 1.320 graceful-readlink 1.0.1**
 - 1.320.1 Available under license
- 1.321 Grafana 2.6.0**
 - 1.321.1 Available under license
- 1.322 grafana 3.0**
 - 1.322.1 Available under license
- 1.323 Grafana 2.0.2**
 - 1.323.1 Available under license
- 1.324 grizzly-framework 2.3.16**
 - 1.324.1 Available under license
- 1.325 grizzly-http 2.3.16**
 - 1.325.1 Available under license
- 1.326 grizzly-http-server 2.3.16**
 - 1.326.1 Available under license
- 1.327 groovy-all 1.8.6**
 - 1.327.1 Available under license
- 1.328 gtk2 2.24.23**
 - 1.328.1 Available under license
- 1.329 guava 14.0**
 - 1.329.1 Available under license
- 1.330 guice 3.0**
 - 1.330.1 Available under license
- 1.331 guice-servlet 3.0**
 - 1.331.1 Available under license
- 1.332 gulp 3.9.0**
 - 1.332.1 Available under license
- 1.333 gulp-util 3.0.7**
 - 1.333.1 Available under license
- 1.334 gulplog 1.0.0**
 - 1.334.1 Available under license

- 1.335 Hadoop 2.4.0.2.1.2.1 :472**
 - 1.335.1 Available under license
- 1.336 hamcrest-core 1.3**
 - 1.336.1 Available under license
- 1.337 HAPROXY 1.5.14**
 - 1.337.1 Available under license
- 1.338 har-validator 1.8.0**
 - 1.338.1 Available under license
- 1.339 har-validator 1.8.0**
 - 1.339.1 Available under license
- 1.340 has-ansi 2.0.0**
 - 1.340.1 Available under license
- 1.341 has-gulplog 0.1.0**
 - 1.341.1 Available under license
- 1.342 has-unicode 1.0.0**
 - 1.342.1 Available under license
- 1.343 hashie 3.4.3**
 - 1.343.1 Available under license
- 1.344 hawk 2.3.1**
 - 1.344.1 Available under license
- 1.345 hawk 3.1.0**
 - 1.345.1 Available under license
- 1.346 hawk 1.0.0**
 - 1.346.1 Available under license
- 1.347 hbase 0.99.1234 :1**
 - 1.347.1 Available under license
- 1.348 hdparm 9.43**
 - 1.348.1 Available under license
- 1.349 Hibernate Validator Engine 5.1.3.Final**
 - 1.349.1 Available under license
- 1.350 hike 1.2.3**
 - 1.350.1 Available under license
- 1.351 hk2-api 2.4.0-b09**
 - 1.351.1 Available under license
- 1.352 hk2-locator 2.4.0-b09**
 - 1.352.1 Available under license
- 1.353 hk2-utils 2.4.0-b09**
 - 1.353.1 Available under license
- 1.354 hoek 2.16.3**

1.354.1 Available under license
1.355 hoek 0.9.1
1.355.1 Available under license
1.356 hoek 2.14.0
1.356.1 Available under license
1.357 hosted-git-info 2.1.4
1.357.1 Available under license
1.358 http-cookie 1.0.2
1.358.1 Available under license
1.359 http-errors 1.3.1
1.359.1 Available under license
1.360 http-server 0.6.1
1.360.1 Available under license
1.361 http-signature 0.10.1
1.361.1 Available under license
1.362 http-signature 0.11.0
1.362.1 Available under license
1.363 httpsyncclient 4.0.2
1.363.1 Available under license
1.364 HttpCore 4.3.2
1.364.1 Available under license
1.365 HttpCore 4.3.2 :1
1.365.1 Available under license
1.366 httpcore-nio 4.3.2
1.366.1 Available under license
1.367 httpd-tools 2.2.15 :31.el6.centos
1.367.1 Available under license
1.368 httplog 0.3.2
1.368.1 Available under license
1.369 i18n 0.6.9
1.369.1 Available under license
1.370 i18n 0.7.0
1.371 iCal4j 1.0.4 :ical4j-1.0.4
1.371.1 Available under license
1.372 iconv-lite 0.4.11
1.372.1 Available under license
1.373 imurmurhash-js 0.1.4
1.373.1 Available under license
1.374 indent-string 2.1.0

1.374.1 Available under license
1.375 infinity-agent 2.0.3
1.375.1 Available under license
1.376 inflect 0.3.3
1.376.1 Available under license
1.377 inflight 1.0.4
1.377.1 Available under license
1.378 inflight 1.0.4
1.378.1 Available under license
1.379 inherit 2.2.2
1.379.1 Available under license
1.380 inherits 2.0.1
1.380.1 Available under license
1.381 ini 1.3.4
1.381.1 Available under license
1.382 inquirer.js 0.10.0
1.382.1 Available under license
1.383 insight 0.7.0
1.384 interpret 0.6.6
1.384.1 Available under license
1.385 intersect 0.0.3
1.385.1 Available under license
1.386 iperf 2.0.5 :r0.0
1.386.1 Available under license
1.387 ipmitool 1.8.11
1.387.1 Available under license
1.388 iptables 1.4.7 :4.9.amzn1
1.388.1 Available under license
1.389 iputils 20071127
1.389.1 Available under license
1.390 is-absolute 0.1.7
1.390.1 Available under license
1.391 is-absolute 0.1.7
1.391.1 Available under license
1.392 is-binary-path 1.0.1
1.392.1 Available under license
1.393 is-builtin-module 1.0.0
1.393.1 Available under license
1.394 is-dotfile 1.0.2

1.394.1 Available under license
1.395 is-equal-shallow 0.1.3
1.395.1 Available under license
1.396 is-extglob 1.0.0
1.396.1 Available under license
1.397 is-finite 1.0.1
1.397.1 Available under license
1.398 is-fullwidth-code-point 1.0.0
1.398.1 Available under license
1.399 is-my-json-valid 2.12.1
1.399.1 Available under license
1.400 is-npm 1.0.0
1.400.1 Available under license
1.401 is-number 1.1.2
1.401.1 Available under license
1.402 is-primitive 2.0.0
1.402.1 Available under license
1.403 is-property 1.0.2
1.403.1 Available under license
1.404 is-property 1.0.2
1.404.1 Available under license
1.405 is-redirect 1.0.0
1.405.1 Available under license
1.406 is-relative 0.1.3
1.406.1 Available under license
1.407 is-relative 0.1.3
1.407.1 Available under license
1.408 is-root 1.0.0
1.408.1 Available under license
1.409 is-stream 1.0.1
1.409.1 Available under license
1.410 isarray 0.0.1
1.410.1 Available under license
1.411 isarray 0.0.1
1.411.1 Available under license
1.412 isobject 1.0.1
1.412.1 Available under license
1.413 isstream 0.1.2
1.413.1 Available under license

- 1.414 isstream 0.1.2**
 - 1.414.1 Available under license
- 1.415 Jackson-annotations 2.2.2**
 - 1.415.1 Available under license
- 1.416 Jackson-core 2.2.2**
 - 1.416.1 Available under license
- 1.417 jackson-core-asl 1.9.11**
 - 1.417.1 Available under license
- 1.418 jackson-databind 2.2.2**
 - 1.418.1 Available under license
- 1.419 jackson-jaxrs 1.8.3**
 - 1.419.1 Available under license
- 1.420 jackson-mapper-asl 1.9.11**
 - 1.420.1 Available under license
- 1.421 jackson-xc 1.8.3**
 - 1.421.1 Available under license
- 1.422 jasmine 2.1.1**
 - 1.422.1 Available under license
- 1.423 jasminewd 1.1.0**
 - 1.423.1 Available under license
- 1.424 jasminewd2 0.0.2**
 - 1.424.1 Available under license
- 1.425 jasper-compiler 5.5.23**
 - 1.425.1 Available under license
- 1.426 jasper-runtime 5.5.23**
 - 1.426.1 Available under license
- 1.427 java-util 0.27.4**
 - 1.427.1 Available under license
- 1.428 java-xmlbuilder 0.4**
 - 1.428.1 Available under license
- 1.429 Javassist 3.18.2-GA**
 - 1.429.1 Available under license
- 1.430 Javassist 3.18.1-GA**
 - 1.430.1 Available under license
- 1.431 javax.activation 1.1.0 v201105071233**
 - 1.431.1 Available under license
- 1.432 javax.annotation API 1.2**
 - 1.432.1 Available under license
- 1.433 javax.inject 1**

- 1.433.1 Available under license
- 1.434 javax.inject 1.0**
 - 1.434.1 Available under license
- 1.435 javax.inject 2.4.0-b09**
 - 1.435.1 Available under license
- 1.436 javax.mail.glassfish 1.4.1.v201005082020**
 - 1.436.1 Available under license
- 1.437 javax.servlet 3.0.0.v201112011016**
 - 1.437.1 Available under license
- 1.438 Javax.Servlet-api 3.0.1**
 - 1.438.1 Available under license
- 1.439 javax.transaction 1.1.1v201105210645**
 - 1.439.1 Available under license
- 1.440 javax.ws.rs-api 2.0.1**
 - 1.440.1 Available under license
- 1.441 jaxb-api 2.2.2**
 - 1.441.1 Available under license
- 1.442 jaxb-impl 2.2.3-1**
 - 1.442.1 Available under license
- 1.443 JBoss Logging 3 3.1.3.GA**
 - 1.443.1 Available under license
- 1.444 jboss-logging 3.1.3.GA**
 - 1.444.1 Available under license
- 1.445 jcl-over-slf4j-1.7.5.jar 1.7.5**
- 1.446 jersey-client 1.9**
 - 1.446.1 Available under license
- 1.447 jersey-common 2.16**
 - 1.447.1 Available under license
- 1.448 jersey-container-servlet 2.16**
 - 1.448.1 Available under license
- 1.449 jersey-container-servlet-core 2.16**
 - 1.449.1 Available under license
- 1.450 jersey-core 1.9**
 - 1.450.1 Available under license
- 1.451 jersey-guava 2.16**
 - 1.451.1 Available under license
- 1.452 jersey-json 1.9**
 - 1.452.1 Available under license
- 1.453 jersey-media-jaxb 2.16**

- 1.453.1 Available under license
- 1.454 jersey-server 1.9**
 - 1.454.1 Available under license
- 1.455 Jets3t 0.7.1**
 - 1.455.1 Available under license
- 1.456 jettison 1.1**
 - 1.456.1 Available under license
- 1.457 Jetty :: Continuation 8.1.14.v20131031**
 - 1.457.1 Available under license
- 1.458 jetty-http 8.1.14.v20131031**
 - 1.458.1 Available under license
- 1.459 jetty-jndi 8.1.14.v20131031**
 - 1.459.1 Available under license
- 1.460 jetty-plus 8.1.14.v20131031**
 - 1.460.1 Available under license
- 1.461 jetty-security 8.1.14.v20131031**
 - 1.461.1 Available under license
- 1.462 jetty-server 8.1.14.v20131031**
 - 1.462.1 Available under license
- 1.463 jetty-servlet 8.1.14.v20131031**
 - 1.463.1 Available under license
- 1.464 jetty-util 8.1.14.v20131031**
 - 1.464.1 Available under license
- 1.465 jetty-webapp 8.1.14.v20131031**
 - 1.465.1 Available under license
- 1.466 jetty-xml 8.1.14.v20131031**
 - 1.466.1 Available under license
- 1.467 jline 0.9.94**
 - 1.467.1 Available under license
- 1.468 JLine - Java console input library 0.9.94**
 - 1.468.1 Available under license
- 1.469 Jna 3.2.4**
 - 1.469.1 Available under license
- 1.470 joda-time 2.8.2**
 - 1.470.1 Available under license
- 1.471 jpackage-utils 1.7.5 :3.12.13.amzn1**
 - 1.471.1 Available under license
- 1.472 jquery-rails 3.1.4**
 - 1.472.1 Available under license

1.473 JSch 0.1.42

1.473.1 Available under license

1.474 json 20141113

1.474.1 Available under license

1.475 json 1.8.3

1.475.1 Available under license

1.476 json 1.8.3

1.476.1 Available under license

1.477 JSON in Java [package org.json] 2011-02-02

1.477.1 Available under license

1.478 json-stringify-safe 5.0.1

1.478.1 Available under license

1.479 json-stringify-safe 5.0.1

1.479.1 Available under license

1.480 json4s-ast_2.10 3.2.10

1.480.1 Available under license

1.481 json4s-core_2.10 3.2.10

1.481.1 Available under license

1.482 json4s-jackson_2.10 3.2.10

1.482.1 Available under license

1.483 jsonify 0.0.0

1.483.1 Available under license

1.484 jsonpointer 1.1.0

1.484.1 Available under license

1.485 jsp-api 2.1

1.485.1 Available under license

1.486 jsp-api 2.0

1.486.1 Available under license

1.487 jsr305 1.3.9 :ICS

1.487.1 Available under license

1.488 jta 1.1

1.488.1 Available under license

1.489 jul-to-slf4j-1.7.5.jar 1.7.5

1.490 Junit 4.10

1.490.1 Available under license

1.491 Junit 3.8.1

1.491.1 Available under license

1.492 junk 1.0.2

1.492.1 Available under license

- 1.493 Kafka_2.10 0.8.1.1**
 - 1.493.1 Available under license
- 1.494 kaminari 0.16.2**
 - 1.494.1 Available under license
- 1.495 karma 0.12.37**
 - 1.495.1 Available under license
- 1.496 karma-chrome-launcher 0.1.12**
 - 1.496.1 Available under license
- 1.497 karma-cli 0.0.4**
 - 1.497.1 Available under license
- 1.498 karma-commonjs 0.0.8**
 - 1.498.1 Available under license
- 1.499 karma-jasmine 0.2.3**
 - 1.499.1 Available under license
- 1.500 karma-junit-reporter 0.2.2**
 - 1.500.1 Available under license
- 1.501 karma-ng-html2js-preprocessor 0.1.2**
 - 1.501.1 Available under license
- 1.502 karma-phantomjs-launcher 0.1.4**
 - 1.502.1 Available under license
- 1.503 karma-spec-reporter 0.0.12**
 - 1.503.1 Available under license
- 1.504 keepalived 1.2.20**
 - 1.504.1 Available under license
- 1.505 kew 0.4.0**
 - 1.505.1 Available under license
- 1.506 keyczar 0.71c**
 - 1.506.1 Available under license
- 1.507 Kryo 2.21**
 - 1.507.1 Available under license
- 1.508 latest-version 1.0.1**
 - 1.508.1 Available under license
- 1.509 libcgrou 0.40 :rc1**
 - 1.509.1 Available under license
- 1.510 libconfuse 2_7**
 - 1.510.1 Available under license
- 1.511 libevent 1.4.13-stable**
 - 1.511.1 Available under license
- 1.512 libgpg-error 1.7**

- 1.512.1 Available under license
- 1.513 libmng 1.0.10**
 - 1.513.1 Available under license
- 1.514 libpng 1.2.49**
 - 1.514.1 Available under license
- 1.515 libthrift 0.7.0**
 - 1.515.1 Available under license
- 1.516 libwebsocket 1.4-chrome43-firefox-36**
 - 1.516.1 Available under license
- 1.517 liftoff 2.2.0**
 - 1.517.1 Available under license
- 1.518 load-json-file 1.1.0**
 - 1.518.1 Available under license
- 1.519 lodash._basecopy 3.0.1**
 - 1.519.1 Available under license
- 1.520 lodash._basetostring 3.0.1**
 - 1.520.1 Available under license
- 1.521 lodash._basevalues 3.0.0**
 - 1.521.1 Available under license
- 1.522 lodash._createpadding 3.6.1**
 - 1.522.1 Available under license
- 1.523 lodash._getnative 3.9.1**
 - 1.523.1 Available under license
- 1.524 lodash._isiterateecall 3.0.9**
 - 1.524.1 Available under license
- 1.525 lodash._reinterpolate 3.0.0**
 - 1.525.1 Available under license
- 1.526 lodash.isarray 3.0.4**
 - 1.526.1 Available under license
- 1.527 lodash.keys 3.1.2**
 - 1.527.1 Available under license
- 1.528 lodash.pad 3.1.1**
 - 1.528.1 Available under license
- 1.529 lodash.padleft 3.1.1**
 - 1.529.1 Available under license
- 1.530 lodash.padright 3.1.1**
 - 1.530.1 Available under license
- 1.531 lodash.repeat 3.0.1**
 - 1.531.1 Available under license

1.532 lodash.restparam 3.6.1
1.532.1 Available under license

1.533 lodash.template 3.6.2
1.533.1 Available under license

1.534 Log4J 1.2.16
1.534.1 Available under license

1.535 log4j-api 2.3
1.535.1 Available under license

1.536 log4j-core 2.3
1.536.1 Available under license

1.537 log4j-slf4j-impl 2.3
1.537.1 Available under license

1.538 logback 1.0.13
1.538.1 Available under license

1.539 lombok 1.16.6
1.539.1 Available under license

1.540 loud-rejection 1.2.0
1.540.1 Available under license

1.541 lowercase-keys 1.0.0
1.541.1 Available under license

1.542 lru-cache 2.6.4
1.542.1 Available under license

1.543 lru-cache 2.6.5
1.543.1 Available under license

1.544 lru-cache 2.7.3
1.544.1 Available under license

1.545 lru-cache 2.7.3
1.545.1 Available under license

1.546 lshw B.02.17
1.546.1 Available under license

1.547 lua 5.1.4
1.547.1 Available under license

1.548 lz4 1.2.0
1.548.1 Available under license

1.549 LZ4 1.2.0 :r119
1.549.1 Available under license

1.550 macos-release 1.0.0
1.550.1 Available under license

1.551 mail 2.5.4

1.551.1 Available under license
1.552 map-obj 1.0.1
1.552.1 Available under license
1.553 MaxMind GeoIP API 1.2.14
1.553.1 Available under license
1.554 md5-hex 1.1.0
1.555 md5-o-matic 0.1.1
1.555.1 Available under license
1.556 media-typer 0.3.0
1.556.1 Available under license
1.557 method-override 2.3.5
1.557.1 Available under license
1.558 method-override 2.3.5
1.558.1 Available under license
1.559 methods 1.1.1
1.559.1 Available under license
1.560 metrics-graphite 3.0.0
1.560.1 Available under license
1.561 metrics-json 3.0.0
1.561.1 Available under license
1.562 metrics-jvm 3.0.0
1.562.1 Available under license
1.563 metrics-opentsdb-metrics-opentsdb 1.0.6
1.563.1 Available under license
1.564 micromatch 2.3.1
1.564.1 Available under license
1.565 micromatch 2.2.0
1.565.1 Available under license
1.566 mime 1.3.4
1.566.1 Available under license
1.567 mime 1.2.11
1.567.1 Available under license
1.568 mime 1.2.11
1.568.1 Available under license
1.569 mime-db 1.12.0
1.569.1 Available under license
1.570 mime-types 1.25.1
1.570.1 Available under license
1.571 mime-types 2.1.3

1.571.1 Available under license
1.572 mime-types 2.1.3
1.572.1 Available under license
1.573 mime-types 2.0.14
1.573.1 Available under license
1.574 minijasminenode master
1.574.1 Available under license
1.575 minimatch 2.0.10
1.575.1 Available under license
1.576 minimatch 0.3.0
1.576.1 Available under license
1.577 minimatch 3.0.0
1.577.1 Available under license
1.578 minimist 0.0.8
1.578.1 Available under license
1.579 minitest 5.8.0
1.580 minitest 5.8.4
1.581 minlog 1.2
1.581.1 Available under license
1.582 mixlib-log 1.6.0
1.582.1 Available under license
1.583 mkdirp 0.3.5
1.583.1 Available under license
1.584 mkpath 0.1.0
1.584.1 Available under license
1.585 Mockito 1.9.5
1.585.1 Available under license
1.586 mockito-all 1.9.5
1.586.1 Available under license
1.587 moment 2.6.0
1.587.1 Available under license
1.588 mongo 2.2.4
1.588.1 Available under license
1.589 mongo-java-server 1.4.3
1.589.1 Available under license
1.590 mongodb 3.2.3
1.590.1 Available under license
1.591 mongoid 5.1.2
1.591.1 Available under license

- 1.592 mongoid-autoinc 5.0.2**
- 1.593 mongoid_rails_migrations 1.0.1**
 - 1.593.1 Available under license
- 1.594 monit 5.14**
 - 1.594.1 Available under license
- 1.595 mono-logger 1.1.0**
 - 1.595.1 Available under license
- 1.596 morgan 1.6.1**
 - 1.596.1 Available under license
- 1.597 morphia r1.1.0**
 - 1.597.1 Available under license
- 1.598 ms 0.7.1**
 - 1.598.1 Available under license
- 1.599 multi_json 1.11.3**
 - 1.599.1 Available under license
- 1.600 multi_json 1.10.1**
 - 1.600.1 Available under license
- 1.601 multipart-post 2.0.0**
- 1.602 multipart-post 1.2.0**
 - 1.602.1 Available under license
- 1.603 multiparty 3.3.2**
 - 1.603.1 Available under license
- 1.604 multipipe 0.1.2**
 - 1.604.1 Available under license
- 1.605 mute-stream 0.0.5**
 - 1.605.1 Available under license
- 1.606 Nagios 3.5**
 - 1.606.1 Available under license
- 1.607 nan 2.0.9**
 - 1.607.1 Available under license
- 1.608 nan 1.0.0**
 - 1.608.1 Available under license
- 1.609 nan 2.0.9**
 - 1.609.1 Available under license
- 1.610 ncp 0.4.2**
 - 1.610.1 Available under license
- 1.611 ncurses 5.7**
 - 1.611.1 Available under license
- 1.612 negotiator 0.5.3**

1.612.1 Available under license
1.613 nested-error-stacks 1.0.2
1.613.1 Available under license
1.614 netaddr 0.7.11
1.614.1 Available under license
1.615 netrc 0.11.0
1.615.1 Available under license
1.616 netty 3.2.2.Final
1.616.1 Available under license
1.617 netty:jar 3.8.0.Final
1.617.1 Available under license
1.618 ng-file-upload 11.0.2
1.618.1 Available under license
1.619 ng-table 0.3.3
1.619.1 Available under license
1.620 ng-table 0.3.2
1.620.1 Available under license
1.621 nginx 1.8.0 :21 Apr 2015
1.621.1 Available under license
1.622 Nginx 1.6.0
1.622.1 Available under license
1.623 ngOnboarding 0.1.7
1.623.1 Available under license
1.624 ngstorage 0.3.10
1.624.1 Available under license
1.625 node-findup-sync 0.3.0
1.625.1 Available under license
1.626 node-is-arrayish 0.2.1
1.626.1 Available under license
1.627 node-pre-gyp 0.6.9
1.627.1 Available under license
1.628 node-uuid 1.4.7
1.628.1 Available under license
1.629 node-uuid 1.4.3
1.629.1 Available under license
1.630 NodeJS 0.10.33
1.630.1 Available under license
1.631 NodeJS 5.7.0
1.631.1 Available under license

1.632 nopt 3.0.3

1.632.1 Available under license

1.633 nopt 1.0.10

1.633.1 Available under license

1.634 npmconf 2.1.1

1.634.1 Available under license

1.635 npmlog 1.2.1

1.635.1 Available under license

1.636 ntp 4.2.6p5

1.636.1 Available under license

1.637 number-is-nan 1.0.0

1.637.1 Available under license

1.638 oauth-sign 0.6.0

1.638.1 Available under license

1.639 oauth-sign 0.3.0

1.639.1 Available under license

1.640 oauth-sign 0.8.0

1.640.1 Available under license

1.641 on-finished 2.3.0

1.641.1 Available under license

1.642 on-finished 2.3.0

1.642.1 Available under license

1.643 on-headers 1.0.0

1.643.1 Available under license

1.644 once 1.3.3

1.644.1 Available under license

1.645 once 1.3.2

1.645.1 Available under license

1.646 onetime 1.0.0

1.646.1 Available under license

1.647 onetimepass 1.0.0

1.647.1 Available under license

1.648 opener 1.3.0

1.648.1 Available under license

1.649 OpenJpeg 1.3

1.649.1 Available under license

1.650 openldap 2.4.23

1.650.1 Available under license

1.651 openssh 5.3p1

1.651.1 Available under license
1.652 opentsdb 2.1.0 :1
1.652.1 Available under license
1.653 optimist 0.6.1
1.653.1 Available under license
1.654 optimist 0.3.7
1.654.1 Available under license
1.655 options 0.0.6
1.655.1 Available under license
1.656 options 0.0.6
1.657 orchestrator 0.3.7
1.657.1 Available under license
1.658 ordered-read-streams 0.1.0
1.658.1 Available under license
1.659 origin 2.2.0
1.659.1 Available under license
1.660 orm_adapter 0.5.0
1.661 oro 2.0.8
1.661.1 Notifications
1.661.2 Available under license
1.662 os-homedir 1.0.1
1.662.1 Available under license
1.663 os-name v1.0.3
1.663.1 Available under license
1.664 os-tmpdir 1.0.1
1.664.1 Available under license
1.665 osenv 0.1.3
1.665.1 Available under license
1.666 osenv 0.1.3
1.666.1 Available under license
1.667 osgi-resource-locator 1.0.1
1.667.1 Available under license
1.668 osgi.resource.locator 1.0.1
1.668.1 Available under license
1.669 p-throttler 0.1.1
1.669.1 Available under license
1.670 package-json 1.2.0
1.670.1 Available under license
1.671 paradise 2.0.1_2.10.3

1.671.1 Available under license
1.672 parquet-protobuf 1.6.0rc4
1.672.1 Available under license
1.673 parse-glob 3.0.4
1.673.1 Available under license
1.674 parse-json 2.2.0
1.674.1 Available under license
1.675 parseurl 1.3.0
1.675.1 Available under license
1.676 path-exists 2.1.0
1.676.1 Available under license
1.677 path-is-absolute 1.0.0
1.677.1 Available under license
1.678 path-is-absolute 1.0.0
1.678.1 Available under license
1.679 path-type 1.1.0
1.679.1 Available under license
1.680 pcre 7.8
1.680.1 Available under license
1.681 pdf-core 0.6.1
1.681.1 Available under license
1.682 Perl Class Singleton 1.4
1.682.1 Available under license
1.683 perl Time HiRes 1.9712-1
1.683.1 Available under license
1.684 perl-Crypt-SSLeay 0.57 :16.4.amzn1
1.684.1 Available under license
1.685 pify 2.3.0
1.685.1 Available under license
1.686 pinkie 2.0.1
1.686.1 Available under license
1.687 pinkie 1.0.0
1.687.1 Available under license
1.688 pinkie-promise 2.0.0
1.688.1 Available under license
1.689 pixman 0.32.4 :r0
1.689.1 Available under license
1.690 pkginfo 0.3.0
1.690.1 Available under license

1.691 pkginfo 0.2.3

1.691.1 Available under license

1.692 pkgr 1.4.4

1.692.1 Available under license

1.693 policyfile 0.0.4

1.693.1 Available under license

1.694 polyglot 0.3.5

1.695 portfinder 0.2.1

1.695.1 Available under license

1.696 prawn 2.1.0

1.696.1 Available under license

1.697 prawn-table 0.2.2

1.697.1 Available under license

1.698 prepend-http 1.0.3

1.698.1 Available under license

1.699 preserve 0.2.0

1.699.1 Available under license

1.700 pretty-hrtime 1.0.1

1.700.1 Available under license

1.701 process-nextick-args 1.0.6

1.701.1 Available under license

1.702 process-nextick-args 1.0.2

1.702.1 Available under license

1.703 progress 1.1.8

1.703.1 Available under license

1.704 promptly 0.2.0

1.704.1 Available under license

1.705 proto-list 1.2.4

1.705.1 Available under license

1.706 protobuf 2.5.0

1.706.1 Available under license

1.707 protobuf 2.6.1

1.707.1 Available under license

1.708 protobuf-java 2.5.0

1.708.1 Available under license

1.709 protobuf_Apache 2.5.0

1.709.1 Available under license

1.710 Protocol Buffer Java API 2.5.0

1.710.1 Available under license

1.711 protractor-screenshot-reporter 0.0.5

1.711.1 Available under license

1.712 pump 1.0.1

1.712.1 Available under license

1.713 py4j 0.8.2.1

1.714 pyrolite 2.0.1

1.715 python 2.7

1.715.1 Available under license

1.716 python-ambariclient 0.5.9

1.717 python-libs 2.6.6 :29.el6_3.3.x86_64

1.717.1 Available under license

1.718 python-numpy 1.9.1

1.718.1 Available under license

1.719 python-six 1.9.0

1.719.1 Available under license

1.720 q 1.4.1

1.720.1 Available under license

1.721 q 0.9.7

1.721.1 Available under license

1.722 qs 2.3.3

1.722.1 Available under license

1.723 qs 0.6.6

1.723.1 Available under license

1.724 Qt 4.6.2

1.724.1 Available under license

1.725 rack 1.6.4

1.726 rack 1.5.5

1.726.1 Available under license

1.727 rack 1.5.2

1.727.1 Available under license

1.728 rack 1.5.5

1.729 rack-protection 1.5.3

1.729.1 Available under license

1.730 rack-reverse-proxy 0.11.0

1.730.1 Available under license

1.731 rack-test 0.6.3

1.732 rack-test 0.6.2

1.732.1 Available under license

1.733 rails 4.1.0

1.733.1 Available under license
1.734 rails_12factor 0.0.3
1.734.1 Available under license
1.735 rails_config 0.4.2
1.735.1 Available under license
1.736 rails_serve_static_assets 0.0.5
1.736.1 Available under license
1.737 rails_stdout_logging 0.0.5
1.737.1 Available under license
1.738 raitties 4.1.0
1.738.1 Available under license
1.739 rake 10.3.2
1.739.1 Available under license
1.740 rake 10.4.2
1.741 range-parser 1.0.2
1.741.1 Available under license
1.742 rb-readline 0.5.3
1.742.1 Available under license
1.743 rc 1.1.5
1.743.1 Available under license
1.744 read 1.0.7
1.744.1 Available under license
1.745 read-all-stream 3.0.1
1.745.1 Available under license
1.746 read-pkg 1.1.0
1.746.1 Available under license
1.747 read-pkg-up 1.0.1
1.747.1 Available under license
1.748 readable-stream 1.1.13
1.748.1 Available under license
1.749 readable-stream 1.0.33
1.749.1 Available under license
1.750 readdirp 2.0.0
1.750.1 Available under license
1.751 readline2 1.0.1
1.751.1 Available under license
1.752 rechoir 0.6.2
1.752.1 Available under license
1.753 redent 1.0.0

1.753.1 Available under license
1.754 redehyd 0.4.4
1.754.1 Available under license
1.755 redehyd 0.4.4
1.755.1 Available under license
1.756 redis 3.2.2
1.756.1 Available under license
1.757 redis-actionpack 4.0.1
1.757.1 Available under license
1.758 redis-activesupport 4.1.5
1.758.1 Available under license
1.759 redis-collectd-plugin master
1.759.1 Available under license
1.760 redis-namespace 1.5.2
1.761 redis-rack 1.5.0
1.761.1 Available under license
1.762 redis-rails 4.0.0
1.762.1 Available under license
1.763 redis-store 1.1.7
1.763.1 Available under license
1.764 ReflectASM 1.07
1.764.1 Available under license
1.765 regex-cache 0.4.2
1.765.1 Available under license
1.766 registry-url 3.0.3
1.766.1 Available under license
1.767 repeat-element 1.1.2
1.767.1 Available under license
1.768 repeat-string 1.5.2
1.768.1 Available under license
1.769 replace-ext 0.0.1
1.769.1 Available under license
1.770 request 2.53.0
1.770.1 Available under license
1.771 request 2.60.0
1.771.1 Available under license
1.772 request-progress 0.3.1
1.772.1 Available under license
1.773 request-replay 0.2.0

1.773.1 Available under license
1.774 resolve 1.1.6
1.774.1 Available under license
1.775 responders 1.1.2
1.776 response-time 2.3.1
1.776.1 Available under license
1.777 resque-loner 1.2.1
1.777.1 Available under license
1.778 resque-scheduler 4.0.0
1.778.1 Available under license
1.779 rest-client 1.8.0
1.779.1 Available under license
1.780 restore-cursor 1.0.1
1.780.1 Available under license
1.781 retry 0.6.1
1.781.1 Available under license
1.782 rimraf 2.4.3
1.782.1 Available under license
1.783 rimraf 2.4.2
1.783.1 Available under license
1.784 rndm 1.1.0
1.784.1 Available under license
1.785 RoaringBitmap 0.4.5
1.785.1 Available under license
1.786 rolify 4.1.1
1.786.1 Available under license
1.787 rotp 2.1.2
1.787.1 Available under license
1.788 rspec-core 3.4.4
1.789 rspec-expectations 3.4.0
1.790 rspec-mocks 3.4.1
1.791 rspec-rails 3.4.2
1.792 rspec-support 3.4.1
1.793 ruby-druid 0.1.9
1.793.1 Available under license
1.794 ruby-druid master
1.794.1 Available under license
1.795 ruby-gems-foreman 0.81.0 :1
1.795.1 Available under license

1.796 ruby-gems-mixlib-shellout 1.6.1 :1

1.796.1 Available under license

1.797 ruby-xz 0.2.3

1.797.1 Available under license

1.798 rufus-scheduler 3.2.0

1.798.1 Available under license

1.799 run-async 0.1.0

1.799.1 Available under license

1.800 rx-lite 3.1.2

1.800.1 Available under license

1.801 safe_yaml 1.0.4

1.801.1 Available under license

1.802 sass 3.2.19

1.802.1 Available under license

1.803 sass-rails 4.0.5

1.803.1 Available under license

1.804 saucelabs 0.1.1

1.805 sax 0.6.1

1.805.1 Available under license

1.806 sax (npm) 0.6.1

1.806.1 Available under license

1.807 sax (npm)_examples/strict.dtd 0.6.1

1.807.1 Available under license

1.808 Scala Compiler 2.10.4

1.809 scala-library 2.10.4

1.809.1 Available under license

1.810 scala-reflect 2.10.4

1.810.1 Available under license

1.811 scalap 2.10.0

1.811.1 Available under license

1.812 scipy 0.15.1

1.812.1 Available under license

1.813 scmp 1.0.0

1.813.1 Available under license

1.814 screen 4.0.3

1.814.1 Available under license

1.815 semver 4.3.6

1.815.1 Available under license

1.816 semver 5.1.0

1.816.1 Available under license
1.817 semver 5.0.1
1.817.1 Available under license
1.818 semver 4.3.6
1.818.1 Available under license
1.819 send 0.13.0
1.819.1 Available under license
1.820 sequencify 0.0.7
1.820.1 Available under license
1.821 serve-favicon 2.3.0
1.821.1 Available under license
1.822 serve-index 1.7.2
1.822.1 Available under license
1.823 servlet-api 2.5
1.823.1 Available under license
1.824 Sha256 from 7-zip 9.21
1.824.1 Available under license
1.825 shelljs 0.2.6
1.825.1 Available under license
1.826 sigmund 1.0.1
1.826.1 Available under license
1.827 sigmund 1.0.1
1.827.1 Available under license
1.828 signal-exit 2.1.2
1.828.1 Available under license
1.829 sinatra 1.4.7
1.829.1 Available under license
1.830 sinatra 1.4.6
1.831 slf4j-api 1.6.2
1.831.1 Available under license
1.832 slf4j-log4j12 1.6.1
1.832.1 Available under license
1.833 slide 1.1.6
1.833.1 Available under license
1.834 SnakeYAML 1.6
1.834.1 Available under license
1.835 snappy-java 1.1.1.6
1.836 sntp 1.0.9
1.836.1 Available under license

- 1.837 sntp 0.2.4**
 - 1.837.1 Available under license
- 1.838 socket.io 0.9.16**
 - 1.838.1 Available under license
- 1.839 socket.io-client 0.9.16**
 - 1.839.1 Available under license
- 1.840 source-map 0.4.4**
 - 1.840.1 Available under license
- 1.841 source-map 0.1.43**
 - 1.841.1 Available under license
- 1.842 source-map-support 0.2.10**
 - 1.842.1 Available under license
- 1.843 Spark 1.6.0**
 - 1.843.1 Available under license
- 1.844 Spark 1.4.1**
 - 1.844.1 Available under license
- 1.845 Spark 1.2.1**
 - 1.845.1 Available under license
- 1.846 spark-core_2.10 1.2.1**
 - 1.846.1 Available under license
- 1.847 spark-network-common_2.10 1.2.1**
 - 1.847.1 Available under license
- 1.848 spark-network-shuffle_2.10 1.2.1**
 - 1.848.1 Available under license
- 1.849 sparkles 1.0.0**
 - 1.849.1 Available under license
- 1.850 sidx-exceptions 1.0.2**
 - 1.850.1 Available under license
- 1.851 spin.js 2.0.1**
 - 1.851.1 Available under license
- 1.852 sprintf-js 1.0.3**
 - 1.852.1 Available under license
- 1.853 sprockets 2.12.4**
- 1.854 sprockets-rails 2.3.3**
 - 1.854.1 Available under license
- 1.855 sqlite 3.6.20**
- 1.856 sshkey 1.8.0**
 - 1.856.1 Available under license
- 1.857 sshpass 1.05 :r0.0.0**

1.857.1 Available under license
1.858 statuses 1.2.1
1.858.1 Available under license
1.859 statuses 1.2.1
1.859.1 Available under license
1.860 stax-api 1.0-2
1.860.1 Available under license
1.861 strace 4.8 :r0
1.861.1 Available under license
1.862 stream 2.7.0
1.862.1 Available under license
1.863 stream-consume 0.1.0
1.863.1 Available under license
1.864 stream-counter 0.2.0
1.864.1 Available under license
1.865 string-length 1.0.1
1.865.1 Available under license
1.866 string_decoder 0.10.31
1.866.1 Available under license
1.867 string_decoder 0.10.31
1.867.1 Available under license
1.868 stringify-object 1.0.1
1.868.1 Available under license
1.869 stringstream 0.0.4
1.869.1 Available under license
1.870 stringstream 0.0.5
1.870.1 Available under license
1.871 StringTemplate 3.2.1
1.871.1 Available under license
1.872 strip-ansi 3.0.0
1.872.1 Available under license
1.873 strip-bom 2.0.0
1.873.1 Available under license
1.874 strip-bom 1.0.0
1.874.1 Available under license
1.875 strip-indent 1.0.1
1.875.1 Available under license
1.876 strip-json-comments 1.0.4
1.876.1 Available under license

1.877 strip-json-comments 0.1.3
1.877.1 Available under license

1.878 success-symbol 0.1.0
1.878.1 Available under license

1.879 supports-color 2.0.0
1.879.1 Available under license

1.880 tablesorter 2.25.1
1.880.1 Available under license

1.881 tachyon 0.5.0
1.881.1 Available under license

1.882 tar 2.2.1
1.882.1 Available under license

1.883 tar 1.23
1.883.1 Available under license

1.884 tar-fs 1.8.1
1.884.1 Available under license

1.885 tar-stream 1.3.1
1.885.1 Available under license

1.886 tcpdump 4.0.0 :r3
1.886.1 Available under license

1.887 tftp-server 0.49 :7.el6.x86_64
1.887.1 Available under license

1.888 thin 1.6.4

1.889 thin 1.6.1
1.889.1 Available under license

1.890 thor 0.19.1

1.891 thread_safe 0.3.5
1.891.1 Available under license

1.892 throttleit 0.0.2

1.893 through 2.3.8
1.893.1 Available under license

1.894 through2 2.0.0
1.894.1 Available under license

1.895 tildify 1.1.2
1.895.1 Available under license

1.896 tilt 2.0.1
1.896.1 Available under license

1.897 tilt 1.4.1
1.897.1 Available under license

1.898 timed-out 2.0.0

1.898.1 Available under license

1.899 tinycolor 0.0.1

1.899.1 Available under license

1.900 tmp 0.0.24

1.900.1 Available under license

1.901 topojson 1.6.18

1.901.1 Available under license

1.902 touch 0.0.3

1.902.1 Available under license

1.903 tough-cookie 2.2.1

1.903.1 Available under license

1.904 tough-cookie 2.0.0

1.904.1 Available under license

1.905 traverse 0.3.9

1.905.1 Available under license

1.906 treetop 1.4.15

1.906.1 Available under license

1.907 trim-newlines 1.0.0

1.907.1 Available under license

1.908 ttfunk 1.4.0

1.908.1 Available under license

1.909 tunnel-agent 0.4.1

1.909.1 Available under license

1.910 twitter4j-core 4.0.2

1.910.1 Available under license

1.911 tzinfo 1.2.2**1.912 udev 147 :0.47.2**

1.912.1 Available under license

1.913 uglifier 3.0.0

1.913.1 Available under license

1.914 uglify-js 1.2.5

1.914.1 Available under license

1.915 uglify-js_app.js 1.2.5

1.915.1 Available under license

1.916 uid-number 0.0.3

1.916.1 Available under license

1.917 uid-safe 2.0.0

1.917.1 Available under license

1.918 Uncommons Maths 1.2.2a

1.918.1 Available under license

1.919 underscore 1.8.2

1.919.1 Available under license

1.920 unf 0.1.4

1.920.1 Available under license

1.921 unf_ext 0.0.7.2

1.921.1 Available under license

1.922 union 0.3.8

1.922.1 Available under license

1.923 unique-stream 1.0.0

1.923.1 Available under license

1.924 unpipe 1.0.0

1.924.1 Available under license

1.925 unpipe 1.0.0

1.925.1 Available under license

1.926 untildify 2.1.0

1.926.1 Available under license

1.927 unused 1.0.0

1.927.1 Available under license

1.928 user-home 1.1.1

1.928.1 Available under license

1.929 util-deprecate 1.0.2

1.929.1 Available under license

1.930 util-deprecate 1.0.1

1.930.1 Available under license

1.931 utile 0.2.1

1.931.1 Available under license

1.932 utils-merge 1.0.0

1.932.1 Available under license

1.933 utils-merge 1.0.0

1.933.1 Available under license

1.934 uuid 2.0.1

1.934.1 Available under license

1.935 v8flags 2.0.10

1.935.1 Available under license

1.936 validate-npm-package-license 3.0.1

1.936.1 Available under license

1.937 validation-api 1.1.0.Final

1.937.1 Available under license
1.938 vary 1.0.1
1.938.1 Available under license
1.939 vary 1.0.1
1.939.1 Available under license
1.940 vcr 3.0.0
1.940.1 Available under license
1.941 vcr 3.0.1
1.941.1 Available under license
1.942 vegas 0.1.11
1.943 velocity 1.5
1.943.1 Available under license
1.944 warden 1.2.3
1.945 webhdfs 0.6.0
1.945.1 Available under license
1.946 webmock 1.18.0
1.946.1 Available under license
1.947 wget 1.12
1.947.1 Available under license
1.948 which 1.1.2
1.948.1 Available under license
1.949 win-release 1.1.1
1.949.1 Available under license
1.950 wordwrap 0.0.3
1.950.1 Available under license
1.951 wordwrap 0.0.3
1.951.1 Available under license
1.952 wrappy 1.0.1
1.952.1 Available under license
1.953 wrappy 1.0.1
1.953.1 Available under license
1.954 write-file-atomic 1.1.4
1.954.1 Available under license
1.955 ws 0.4.32
1.955.1 Available under license
1.956 xdg-basedir 1.0.1
1.956.1 Available under license
1.957 xml2js 0.4.4
1.957.1 Available under license

1.958 xmlbuilder 0.4.2

1.958.1 Available under license

1.959 xmlenc 0.52

1.959.1 Available under license

1.960 xmlhttprequest 1.4.2

1.960.1 Available under license

1.961 xtend 4.0.0

1.961.1 Available under license

1.962 xtend 4.0.1

1.962.1 Available under license

1.963 yajl 1.0.7 :3

1.963.1 Available under license

1.964 yajl-ruby 1.2.0

1.964.1 Available under license

1.965 zeparser 0.0.5

1.965.1 Available under license

1.966 zeparser_benchmark.html 0.0.5

1.966.1 Available under license

1.967 zip 3.0

1.967.1 Available under license

1.968 zk 1.9.6

1.968.1 Available under license

1.969 zkclient 0.3

1.969.1 Available under license

1.970 zlib 1.2.3

1.970.1 Available under license

1.971 zmq 1.0.0

1.971.1 Available under license

1.972 Zookeeper 3.4.5

1.972.1 Available under license

1.973 zookeeper 1.4.11

1.973.1 Available under license

adhoc-os 1.103.1 10

2.1 Centos Minimal 7.2 :1511

2.1.1 GNU GENERAL PUBLIC LICENSE Version 2

2.1.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

2.1.3 GNU GENERAL PUBLIC LICENSE Version 3

2.1.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3

2.2 wget 1.14 :10.el7_0.1

2.2.1 Available under license

ui-os 1.103.1 10

3.1 haproxy 1.5.4 :2.el6_7.1

3.1.1 Available under license

3.2 Ubuntu 14.04.3 Server ISO 14.04.3

3.2.1 GNU GENERAL PUBLIC LICENSE Version 2

3.2.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

3.2.3 GNU GENERAL PUBLIC LICENSE Version 3

3.2.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3

tetos 1.103.1 10

4.1 Centos Minimal 6.5

4.1.1 GNU GENERAL PUBLIC LICENSE Version 2

4.1.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

4.1.3 GNU GENERAL PUBLIC LICENSE Version 3

4.1.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3

adhoc-app 1.103.1 10

5.1 alembic 0.8.7.dev0 :1

5.1.1 Available under license

5.2 appnope 0.1.0

5.2.1 Available under license

5.3 argparse 1.4.0

5.3.1 Available under license

5.4 bokeh 0.11.1

5.4.1 Available under license

5.5 bzip2 1.0.6 :13.el7

5.5.1 Available under license

5.6 cloudpickle 0.1.1 :1

5.6.1 Available under license

5.7 codecov 2.0.5 :1

5.7.1 Available under license

5.8 Cython 0.23.5 :1

5.8.1 Available under license

5.9 decorator 4.0.10 :1

5.9.1 Available under license

5.10 dill 0.2.5

5.10.1 Available under license

5.11 docker-engine 1.12.2 :1.el7.centos

- 5.11.1 Available under license
- 5.12 docker-py 1.9.0 :1**
 - 5.12.1 Available under license
- 5.13 dockerspawner 0.5.0 :1**
 - 5.13.1 Available under license
- 5.14 docopt 0.6.2**
 - 5.14.1 Available under license
- 5.15 entrypoints 0.2.2**
 - 5.15.1 Available under license
- 5.16 escapism 0.0.2 :1**
 - 5.16.1 Available under license
- 5.17 hdfs 2.0.9 :1**
 - 5.17.1 Available under license
- 5.18 ipykernel 4.3.1 :1**
 - 5.18.1 Available under license
- 5.19 ipython 5.0.0**
 - 5.19.1 Available under license
- 5.20 ipython_genutils 0.1.0 :1**
 - 5.20.1 Available under license
- 5.21 ipywidgets 6.0.0b5 :1**
 - 5.21.1 Available under license
- 5.22 Jinja2 2.8**
 - 5.22.1 Available under license
- 5.23 jsonschema 2.5.1**
 - 5.23.1 Available under license
- 5.24 jupyter_client 4.3.0 :1**
 - 5.24.1 Available under license
- 5.25 jupyter_core 4.1.0 :1**
 - 5.25.1 Available under license
- 5.26 jupyterhub 0.5.0 :1**
 - 5.26.1 Available under license
- 5.27 Mako 1.0.4 :1**
 - 5.27.1 Available under license
- 5.28 MarkupSafe 0.23**
 - 5.28.1 Available under license
- 5.29 MarkupSafe 0.23 :1**
 - 5.29.1 Available under license
- 5.30 matplotlib 1.5.1 :1**
 - 5.30.1 Available under license

- 5.31 Miniconda3 4.1.11**
 - 5.31.1 Available under license
- 5.32 mistune 0.7.3 :1**
 - 5.32.1 Available under license
- 5.33 mock 2.0.0**
 - 5.33.1 Available under license
- 5.34 nbconvert 4.2.0**
 - 5.34.1 Available under license
- 5.35 nbformat 4.0.1 :1**
 - 5.35.1 Available under license
- 5.36 nose_warnings_filters 0.1.0**
 - 5.36.1 Available under license
- 5.37 notebook 5.0.0.dev0 :1**
 - 5.37.1 Available under license
- 5.38 numba 0.23.1 :1**
 - 5.38.1 Available under license
- 5.39 numexpr 2.5.2**
 - 5.39.1 Available under license
- 5.40 pamela 0.2.1 :1**
 - 5.40.1 Available under license
- 5.41 pandas 0.18.1 :1**
 - 5.41.1 Available under license
- 5.42 patsy 0.4.1 :1**
 - 5.42.1 Available under license
- 5.43 pbr 1.10.0 :1**
 - 5.43.1 Available under license
- 5.44 pexpect 4.2.0**
 - 5.44.1 Available under license
- 5.45 pickleshare 0.7.3 :1**
 - 5.45.1 Available under license
- 5.46 pip 8.1.2 :1**
 - 5.46.1 Available under license
- 5.47 ptyprocess 0.5.1**
 - 5.47.1 Available under license
- 5.48 py 1.4.31 :1**
 - 5.48.1 Available under license
- 5.49 Pygments 2.1.3 :1**
 - 5.49.1 Available under license
- 5.50 pytest 2.9.2 :1**

5.50.1 Available under license
5.51 pytest-cov 2.3.0 :1
5.51.1 Available under license
5.52 python-editor 1.0.1 :1
5.52.1 Available under license
5.53 pyzmq 15.3.0 :1
5.53.1 Available under license
5.54 requests 2.10.0 :1
5.54.1 Available under license
5.55 requests-mock 1.0.0 :1
5.55.1 Available under license
5.56 scikit-image 0.11.3
5.56.1 Available under license
5.57 scikit-learn 0.17.1
5.57.1 Available under license
5.58 scipy 0.17.1
5.58.1 Available under license
5.59 seaborn 0.7.1 :1
5.59.1 Available under license
5.60 setuptools 20.10.1
5.60.1 Available under license
5.61 simplegeneric 0.8.1 :1
5.62 six 1.10.0
5.62.1 Available under license
5.63 spark 1.6.2
5.63.1 Available under license
5.64 SQLAlchemy 1.0.14.dev0 :1
5.64.1 Available under license
5.65 statsmodels 0.6.1 :1
5.65.1 Available under license
5.66 sympy 1.0
5.66.1 Available under license
5.67 terminado 0.6 :1
5.67.1 Available under license
5.68 toree 0.1.0.dev9 :1
5.68.1 Available under license
5.69 tornado 4.4.1 :1
5.69.1 Available under license
5.70 traitlets 4.2.2 :1

- 5.70.1 Available under license
- 5.71 wwidth 0.1.7 :1**
 - 5.71.1 Available under license
- 5.72 websocket-client 0.37.0**
 - 5.72.1 Available under license
- 5.73 wget 1.11.4**
 - 5.73.1 Available under license
- 5.74 yolksk 0.9 :1**
 - 5.74.1 Available under license

1.1 abbrev 1.0.7

1.1.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.2 abbrev 1.0.7

1.2.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.3 accepts 1.2.13

1.3.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

1.4 actionmailer 4.1.0

1.4.1 Available under license :

Copyright (c) 2004-2014 David Heinemeier Hansson

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

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

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

1.5 actionpack 4.1.0

1.5.1 Available under license :

Copyright (c) 2004-2014 David Heinemeier Hansson

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

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

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

1.6 actionview 4.1.0

1.6.1 Available under license :

Copyright (c) 2004-2014 David Heinemeier Hansson

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

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

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

1.7 active-x-obfuscator 0.0.1

1.7.1 Available under license :

Copyright (c) 2012 Felix Geisendörfer (felix@debuggable.com) and contributors

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

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

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

1.8 activemodel 4.1.0

1.8.1 Available under license :

Copyright (c) 2004-2014 David Heinemeier Hansson

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

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

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

1.9 activerecord 4.1.0

1.9.1 Available under license :

Copyright (c) 2004-2014 David Heinemeier Hansson

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

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

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

1.10 activesupport 4.1.0

1.10.1 Available under license :

Copyright (c) 2005-2014 David Heinemeier Hansson

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

permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

1.11 addressable 2.4.0

1.11.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

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

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

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

1.12 adm-zip 0.4.4

1.12.1 Available under license :

Copyright (c) 2012 Another-D-Mention Software and other contributors,
<http://www.another-d-mention.ro/>

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/*

* \$Id: rawdeflate.js,v 0.5 2013/04/09 14:25:38 dankogai Exp dankogai \$

*

* GNU General Public License, version 2 (GPL-2.0)

* <http://opensource.org/licenses/GPL-2.0>

* Original:

* <http://www.onicos.com/staff/iz/amuse/javascript/expert/deflate.txt>

*/

1.13 adm-zip_deflater.js 0.4.4

1.13.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it
```

under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

/*

* \$Id: rawdeflate.js,v 0.5 2013/04/09 14:25:38 dankogai Exp dankogai \$

*

* GNU General Public License, version 2 (GPL-2.0)

* <http://opensource.org/licenses/GPL-2.0>

* Original:

* <http://www.onicos.com/staff/iz/amuse/javascript/expert/deflate.txt>

*/

1.14 airbrake 5.1.0

1.15 airbrake-js-client 0.5.8

1.15.1 Available under license :

Copyright (C) 2013 Rackspace Hosting Inc.

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

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

Software.

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

1.16 airbrake-ruby 1.2.3

1.16.1 Available under license :

Copyright © 2016 Airbrake Technologies, Inc.

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

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

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

1.17 airline 0.7

1.17.1 Available under license :

Copyright Notices

=====

Copyright 2011 Dain Sundstrom <dain@iq80.com>

Copyright 2010 Cedric Beust <cedric@beust.com>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

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

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

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

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

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

limitations under the License.

1.18 akka-actor 2.10-2.3.9

1.18.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

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

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

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

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

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

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

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

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

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

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

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

1.19 akka-remote 2.3.4

1.19.1 Available under license :

Apache License, Version 2.0
<http://www.apache.org/licenses/LICENSE-2.0>

1.20 akka:akka-slf4j_2.10 2.3.4

1.20.1 Available under license :

jMock Project License

Copyright (c) 2000-2007, jMock.org
All rights reserved.

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

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY

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

=====
Common Public License Version 1.0
=====

License: MIT License
=====

Apache License, Version 2.0
=====

NU General Public License, version 2,
with the Classpath Exception

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to

distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is

not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the

right to control the distribution of derivative or collective works based on the Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so

long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original

copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are subject to the following clarification and special exception to the GPL, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.21 amdefine 1.0.0

1.21.1 Available under license :

amdefine is released under two licenses: new BSD, and MIT. You may pick the license that best suits your development needs. The text of both licenses are provided below.

The "New" BSD License:

Copyright (c) 2011, The Dojo Foundation
All rights reserved.

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

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

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

MIT License

Copyright (c) 2011, The Dojo Foundation

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.22 amdefine 0.1.0

1.22.1 Available under license :

amdefine is released under two licenses: new BSD, and MIT. You may pick the license that best suits your development needs. The text of both licenses are provided below.

The "New" BSD License:

Copyright (c) 2011, The Dojo Foundation
All rights reserved.

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

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

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

MIT License

Copyright (c) 2011, The Dojo Foundation

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

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

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

1.23 angular 1.3.11

1.23.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Angular

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

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

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

1.24 angular-animate 1.3.11

1.24.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Angular

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

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

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

1.25 angular-bootstrap 0.13.0

1.25.1 Available under license :

The MIT License

Copyright (c) 2012-2015 the AngularUI Team, <https://github.com/organizations/angular-ui/teams/291112>

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.26 angular-cache 3.0.3

1.26.1 Available under license :

The MIT License

Copyright (C) 2013-2015 Jason Dobry

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

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

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

1.27 angular-dialog-service 5.2.8

1.27.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Michael E Conroy

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.28 angular-google-analytics 0.0.9

1.28.1 Available under license :

Copyright (c) 2015 "Julien Bouquillon <julien@bouquillon.com>"

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

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

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

1.29 angular-google-maps 2.0.6

1.29.1 Available under license :

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A

PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.30 angular-nl2br-filter 1.0.3

1.30.1 Available under license :

The MIT License (MIT)

Copyright (c) Stefan Dietz <dev@stefan-dietz.eu> (<https://github.com/sdvg>)

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

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

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

1.31 angular-qrcode 5.1.0

1.32 angular-resource 1.3.11

1.32.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Angular

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

1.33 angular-route 1.3.11

1.33.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Angular

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

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

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

1.34 angular-sanitize 1.3.11

1.34.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Angular

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

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

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

1.35 angular-spinner 0.8.0

1.36 angular-ui-router0 0.2.12

1.36.1 Available under license :

The MIT License

Copyright (c) 2013-2015 The AngularUI Team, Karsten Sperling

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

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

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

1.37 angular-xeditable 0.1.8

1.37.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Vitaliy Potapov

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

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

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

1.38 ansi 0.3.0

1.38.1 Available under license :

ansi.js

=====

Advanced ANSI formatting tool for Node.js

`ansi.js` is a module for Node.js that provides an easy-to-use API for writing ANSI escape codes to `Stream` instances. ANSI escape codes are used to do fancy things in a terminal window, like render text in colors, delete characters, lines, the entire window, or hide and show the cursor, and lots more!

Features:

- * 256 color support for the terminal!
- * Make a beep sound from your terminal!
- * Works with *any* writable `Stream` instance.
- * Allows you to move the cursor anywhere on the terminal window.
- * Allows you to delete existing contents from the terminal window.
- * Allows you to hide and show the cursor.

- * Converts CSS color codes and RGB values into ANSI escape codes.
- * Low-level; you are in control of when escape codes are used, it's not abstracted.

Installation

Install with `npm`:

```
``` bash
$ npm install ansi
```
```

Example

```
``` js
var ansi = require('ansi')
, cursor = ansi(process.stdout)

// You can chain your calls forever:
cursor
 .red() // Set font color to red
 .bg.grey() // Set background color to grey
 .write('Hello World!') // Write 'Hello World!' to stdout
 .bg.reset() // Reset the bgcolor before writing the trailing \n,
 // to avoid Terminal glitches
 .write('\n') // And a final \n to wrap things up

// Rendering modes are persistent:
cursor.hex('#660000').bold().underline()

// You can use the regular logging functions, text will be green:
console.log("This is blood red, bold text")

// To reset just the foreground color:
cursor.fg.reset()

console.log("This will still be bold")

// to go to a location (x,y) on the console
// note: 1-indexed, not 0-indexed:
cursor.goto(10, 5).write('Five down, ten over')

// to clear the current line:
cursor.horizontalAbsolute(0).eraseLine().write('Starting again')
```

```
// to go to a different column on the current line:
cursor.horizontalAbsolute(5).write('column five')
```

```
// Clean up after yourself!
cursor.reset()
...

```

License  
-----

(The MIT License)

Copyright (c) 2012 Nathan Rajlich <nathan@tootallnate.net>

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

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

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

## 1.39 ansi-escapes 1.1.0

### 1.39.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

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

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

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

## 1.40 ansi-green 0.1.1

### 1.40.1 Available under license :

The MIT License (MIT)

Copyright (c) <%= year() %>, Jon Schlinkert.

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

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

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

## 1.41 ansi-regex 2.0.0

### 1.41.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

## 1.42 ansi-regex 2.0.0

### 1.42.1 Available under license :

```
ansi-regex [![Build Status](https://travis-ci.org/sindresorhus/ansi-regex.svg?branch=master)](https://travis-ci.org/sindresorhus/ansi-regex)
```

```
> Regular expression for matching [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)
```

```
Install
```

```

```

```
$ npm install --save ansi-regex
```

```

```

```
Usage
```

```
```js
```

```
var ansiRegex = require('ansi-regex');
```

```
ansiRegex().test('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
ansiRegex().test('cake');
```

```
//=> false
```

```
\u001b[4mcake\u001b[0m'.match(ansiRegex());
```

```
//=> ['\u001b[4m', '\u001b[0m']
```

```
---
```

License

MIT Â© [Sindre Sorhus](http://sindresorhus.com)

1.43 ansi-styles 2.1.0

1.43.1 Available under license :

ansi-styles [![Build Status](https://travis-ci.org/chalk/ansi-styles.svg?branch=master)](https://travis-ci.org/chalk/ansi-styles)

> [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code#Colors_and_Styles) for styling strings in the terminal

You probably want the higher-level [chalk](https://github.com/chalk/chalk) module for styling your strings.

Install

```
$ npm install --save ansi-styles
```

Usage

```
```js
```

```
var ansi = require('ansi-styles');
```

```
console.log(ansi.green.open + 'Hello world!' + ansi.green.close);
```

```
```
```

API

Each style has an `open`` and `close`` property.

Styles

Modifiers

- `reset``

- `bold``

- `dim``

- ``italic`` *(not widely supported)*
- ``underline``
- ``inverse``
- ``hidden``
- ``strikethrough`` *(not widely supported)*

Colors

- ``black``
- ``red``
- ``green``
- ``yellow``
- ``blue``
- ``magenta``
- ``cyan``
- ``white``
- ``gray``

Background colors

- ``bgBlack``
- ``bgRed``
- ``bgGreen``
- ``bgYellow``
- ``bgBlue``
- ``bgMagenta``
- ``bgCyan``
- ``bgWhite``

Advanced usage

By default you get a map of styles, but the styles are also available as groups. They are non-enumerable so they don't show up unless you access them explicitly. This makes it easier to expose only a subset in a higher-level module.

- ``ansi.modifiers``
- ``ansi.colors``
- ``ansi.bgColors``

Example

```
```js
console.log(ansi.colors.green.open);
```
```

License

MIT Â© [Sindre Sorhus](http://sindresorhus.com)

1.44 ansi-wrap 0.1.0

1.44.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015, Jon Schlinkert.

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

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

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

1.45 ansible 1.9.2

1.45.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

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

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

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

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

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

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

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

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

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

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.46 ansicolors 0.2.1

1.46.1 Available under license :

Copyright 2013 Thorsten Lorenz.
All rights reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,

copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

1.47 ant 1.6.5

1.47.1 Available under license :

```
/*
 *           Apache License
 *           Version 2.0, January 2004
 *           http://www.apache.org/licenses/
 *
 * TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
 *
 * 1. Definitions.
 *
 * "License" shall mean the terms and conditions for use, reproduction,
 * and distribution as defined by Sections 1 through 9 of this document.
 *
 * "Licensor" shall mean the copyright owner or entity authorized by
 * the copyright owner that is granting the License.
 *
 * "Legal Entity" shall mean the union of the acting entity and all
 * other entities that control, are controlled by, or are under common
 * control with that entity. For the purposes of this definition,
 * "control" means (i) the power, direct or indirect, to cause the
 * direction or management of such entity, whether by contract or
 * otherwise, or (ii) ownership of fifty percent (50%) or more of the
 * outstanding shares, or (iii) beneficial ownership of such entity.
 *
 * "You" (or "Your") shall mean an individual or Legal Entity
 * exercising permissions granted by this License.
 *
 * "Source" form shall mean the preferred form for making modifications,
```

* including but not limited to software source code, documentation
* source, and configuration files.

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

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

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

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

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

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

*
* 3. Grant of Patent License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,

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

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

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

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

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

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

- * You may add Your own copyright statement to Your modifications and
- * may provide additional or different license terms and conditions
- * for use, reproduction, or distribution of Your modifications, or
- * for any such Derivative Works as a whole, provided Your use,
- * reproduction, and distribution of the Work otherwise complies with
- * the conditions stated in this License.
- *
- * 5. Submission of Contributions. Unless You explicitly state otherwise,
- * any Contribution intentionally submitted for inclusion in the Work
- * by You to the Licensor shall be under the terms and conditions of
- * this License, without any additional terms or conditions.
- * Notwithstanding the above, nothing herein shall supersede or modify
- * the terms of any separate license agreement you may have executed
- * with Licensor regarding such Contributions.
- *
- * 6. Trademarks. This License does not grant permission to use the trade
- * names, trademarks, service marks, or product names of the Licensor,
- * except as required for reasonable and customary use in describing the
- * origin of the Work and reproducing the content of the NOTICE file.
- *
- * 7. Disclaimer of Warranty. Unless required by applicable law or
- * agreed to in writing, Licensor provides the Work (and each
- * Contributor provides its Contributions) on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
- * implied, including, without limitation, any warranties or conditions
- * of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
- * PARTICULAR PURPOSE. You are solely responsible for determining the
- * appropriateness of using or redistributing the Work and assume any
- * risks associated with Your exercise of permissions under this License.
- *
- * 8. Limitation of Liability. In no event and under no legal theory,
- * whether in tort (including negligence), contract, or otherwise,
- * unless required by applicable law (such as deliberate and grossly
- * negligent acts) or agreed to in writing, shall any Contributor be
- * liable to You for damages, including any direct, indirect, special,
- * incidental, or consequential damages of any character arising as a
- * result of this License or out of the use or inability to use the
- * Work (including but not limited to damages for loss of goodwill,
- * work stoppage, computer failure or malfunction, or any and all
- * other commercial damages or losses), even if such Contributor
- * has been advised of the possibility of such damages.
- *
- * 9. Accepting Warranty or Additional Liability. While redistributing
- * the Work or Derivative Works thereof, You may choose to offer,
- * and charge a fee for, acceptance of support, warranty, indemnity,
- * or other liability obligations and/or rights consistent with this
- * License. However, in accepting such obligations, You may act only
- * on Your own behalf and on Your sole responsibility, not on behalf

* of any other Contributor, and only if You agree to indemnify,
* defend, and hold each Contributor harmless for any liability
* incurred by, or claims asserted against, such Contributor by reason
* of your accepting any such warranty or additional liability.

* END OF TERMS AND CONDITIONS

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

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

* Copyright [yyyy] [name of copyright owner]

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

* <http://www.apache.org/licenses/LICENSE-2.0>

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

*/

```
=====
== NOTICE file corresponding to the section 4 d of          ==
== the Apache License, Version 2.0,                          ==
== in this case for the Apache Ant distribution.             ==
=====
```

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

This product includes also software developed by :
- the W3C consortium (<http://www.w3c.org>) ,
- the SAX project (<http://www.saxproject.org>)

Please read the different LICENSE files present in the root directory of
this distribution.

This license came from:

<http://www.w3.org/Consortium/Legal/copyright-software-19980720>

W3C SOFTWARE NOTICE AND LICENSE

Copyright 1994-2001 World

Wide Web Consortium, (World

Wide Web Consortium, (<a href="

"http://www.lcs.mit.edu/">Massachusetts Institute of

Technology, Institut National de

Recherche en Informatique et en Automatique, <a href="

"http://www.keio.ac.jp/">Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

This W3C work (including software, documents, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications, that you make:

The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, a short notice of the following form (hypertext is preferred, text is permitted) should be used within the body of any redistributed or derivative code:

"Copyright [\$date-of-software] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
<http://www.w3.org/Consortium/Legal/>"

Notice of any changes or modifications to the W3C files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on August 14 1998 so as to improve compatibility with GPL. This version ensures that W3C software licensing terms are no more restrictive than GPL and consequently W3C software may be distributed in GPL packages. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

webmaster

This license came from: <http://www.megginson.com/SAX/copying.html>
However please note future versions of SAX may be covered under <http://saxproject.org/?selected=pd>

This page is now out of date -- see the new SAX site at <http://www.saxproject.org/> for more up-to-date releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com

2000-05-05

/*

* The Apache Software License, Version 1.1

*

*

* Copyright (c) 1999-2002 The Apache Software Foundation. All rights

* reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * 3. The end-user documentation included with the redistribution,
 * if any, must include the following acknowledgment:
 * "This product includes software developed by the
 * Apache Software Foundation (<http://www.apache.org/>)."
 * Alternately, this acknowledgment may appear in the software itself,
 * if and wherever such third-party acknowledgments normally appear.
 *
 * 4. The names "Xerces" and "Apache Software Foundation" must
 * not be used to endorse or promote products derived from this
 * software without prior written permission. For written
 * permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache",
 * nor may "Apache" appear in their name, without prior written
 * permission of the Apache Software Foundation.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * =====
 *
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation and was
 * originally based on software copyright (c) 1999, International
 * Business Machines, Inc., <http://www.ibm.com>. For more

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

1.48 ANTLR 2.7.7

1.48.1 Available under license :

ANTLR 3 License

[The BSD License]

Copyright (c) 2003-2008, Terence Parr

All rights reserved.

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

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

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

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

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

1.49 ANTLR StringTemplate 3.2.1

1.49.1 Available under license :

BSD licence

<http://antlr.org/license.html>

1.50 antlr-runtime 3.4

1.50.1 Available under license :

IP Central Maven plugin could not find license data for this component. Please use the source code or component links to investigate and identify the correct license text to insert here.

1.51 anymatch 1.3.0

1.51.1 Available under license :

The ISC License

Copyright (c) 2014 Elan Shanker

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.52 aopalliance-repackaged 2.4.0-b09

1.52.1 Available under license :

CDDL + GPLv2 with classpath exception

https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html

A business-friendly OSS license

1.53 Apache Commons Collections 3.2.1.

1.53.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

designated in writing by the copyright owner as "Not a Contribution."

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

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

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

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

Apache Commons Collections

Copyright 2001-2008 The Apache Software Foundation

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

/*

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

1.54 Apache Commons EL 1.0.0

:1.0.0.v200806031608

1.54.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

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

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

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

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

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

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

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

9. Accepting Warranty or Additional Liability. While redistributing

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

/*

* The Apache Software License, Version 1.1

*

* Copyright (c) 1999 The Apache Software Foundation. All rights reserved.

*

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

*

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

*
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * 3. The end-user documentation included with the redistribution, if
 * any, must include the following acknowledgement:
 * "This product includes software developed by the
 * Apache Software Foundation (<http://www.apache.org/>)."
 * Alternately, this acknowledgement may appear in the software itself,
 * if and wherever such third-party acknowledgements normally appear.
 *
 * 4. The names "The Jakarta Project", "Tomcat", and "Apache Software
 * Foundation" must not be used to endorse or promote products derived
 * from this software without prior written permission. For written
 * permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache"
 * nor may "Apache" appear in their names without prior written
 * permission of the Apache Group.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * =====
 *
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation. For more
 * information on the Apache Software Foundation, please see
 * <<http://www.apache.org/>>.
 *
 */

1.55 Apache Derby 10.10.1.1

1.55.1 Available under license :

=====
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache Derby distribution. ==
=====

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

Portions of Derby were originally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".

The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm

The XSL stylesheets in the documentation source directory 'lib'
were originally developed by the DITA Open Toolkit project as part
of DITA-OT 1.1.2.1. These files are copyright 2004, 2005 IBM Corp.
and licensed under the Apache License Version 2.0. See DITA project
page at <http://dita-ot.sourceforge.net/>
Apache License

Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

outstanding shares, or (iii) beneficial ownership of such entity.

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

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

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

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

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

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

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

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

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

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

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

```
=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the Apache Derby distribution.    ==  
=====
```

Apache Derby
Copyright 2004-2006 The Apache Software Foundation

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

Portions of Derby were originally developed by International Business Machines Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Derby CLA". The following copyright notice(s) were affixed to portions of the code with which this file is now or was at one time distributed and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally developed by the National Institute of Standards and Technology (NIST), an agency of the United States Department of Commerce, and adapted by International Business Machines Corporation in accordance with the NIST Software Acknowledgment and Redistribution document at http://www.itl.nist.gov/div897/ctg/sql_form.htm

```
=====
== NOTICE file corresponding to section 4(d) of the Apache License,
== Version 2.0, in this case for the Apache Derby distribution.
==
== DO NOT EDIT THIS FILE DIRECTLY. IT IS GENERATED
== BY THE buildnotice TARGET IN THE TOP LEVEL build.xml FILE.
==
=====
```

Apache Derby
Copyright 2004-2013 The Apache Software Foundation

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

```
=====
```

Portions of Derby were originally developed by International Business Machines Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Derby CLA". The following copyright notice(s) were affixed to portions of the code with which this file is now or was at one time distributed and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

=====
The portion of the functionTests under 'nist' was originally developed by the National Institute of Standards and Technology (NIST), an agency of the United States Department of Commerce, and adapted by International Business Machines Corporation in accordance with the NIST Software Acknowledgment and Redistribution document at http://www.itl.nist.gov/div897/ctg/sql_form.htm

=====
The JDBC apis for small devices and JDBC3 (under java/stubs/jsr169 and java/stubs/jdbc3) were produced by trimming sources supplied by the Apache Harmony project. In addition, the Harmony SerialBlob and SerialClob implementations are used. The following notice covers the Harmony sources:

Portions of Harmony were originally developed by Intel Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Intel Harmony CLA".

=====
The Derby build relies on source files supplied by the Apache Felix project. The following notice covers the Felix files:

Apache Felix Main
Copyright 2008 The Apache Software Foundation

I. Included Software

This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>). Licensed under the Apache License 2.0.

This product includes software developed at The OSGi Alliance (<http://www.osgi.org/>). Copyright (c) OSGi Alliance (2000, 2007).

Licensed under the Apache License 2.0.

This product includes software from <http://kxml.sourceforge.net>.
Copyright (c) 2002,2003, Stefan Haustein, Oberhausen, Rhld., Germany.
Licensed under BSD License.

II. Used Software

This product uses software developed at
The OSGi Alliance (<http://www.osgi.org/>).
Copyright (c) OSGi Alliance (2000, 2007).
Licensed under the Apache License 2.0.

III. License Summary

- Apache License 2.0
- BSD License

=====

The Derby build relies on jar files supplied by the Apache Xalan project. The following notice covers the Xalan jar files:

```

=====
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache Xalan Java distribution. ==
=====

```

Apache Xalan (Xalan XSLT processor)
Copyright 1999-2006 The Apache Software Foundation

Apache Xalan (Xalan serializer)
Copyright 1999-2006 The Apache Software Foundation

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

=====

- Portions of this software was originally based on the following:
- software copyright (c) 1999-2002, Lotus Development Corporation.,
<http://www.lotus.com>.
 - software copyright (c) 2001-2002, Sun Microsystems.,
<http://www.sun.com>.
 - software copyright (c) 2003, IBM Corporation.,
<http://www.ibm.com>.

The binary distribution package (ie. jars, samples and documentation) of this product includes software developed by the following:

- The Apache Software Foundation
 - Xerces Java - see LICENSE.txt
 - JAXP 1.3 APIs - see LICENSE.txt
 - Bytecode Engineering Library - see LICENSE.txt
 - Regular Expression - see LICENSE.txt

- Scott Hudson, Frank Flannery, C. Scott Ananian
 - CUP Parser Generator runtime (javacup\runtime) - see LICENSE.txt

The source distribution package (ie. all source and tools required to build Xalan Java) of this product includes software developed by the following:

- The Apache Software Foundation
 - Xerces Java - see LICENSE.txt
 - JAXP 1.3 APIs - see LICENSE.txt
 - Bytecode Engineering Library - see LICENSE.txt
 - Regular Expression - see LICENSE.txt
 - Ant - see LICENSE.txt
 - Stylebook doc tool - see LICENSE.txt

- Elliot Joel Berk and C. Scott Ananian
 - Lexical Analyzer Generator (JLex) - see LICENSE.txt

Apache Xerces Java
Copyright 1999-2006 The Apache Software Foundation

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

Portions of Apache Xerces Java in xercesImpl.jar and xml-apis.jar were originally based on the following:

- software copyright (c) 1999, IBM Corporation., <http://www.ibm.com>.
- software copyright (c) 1999, Sun Microsystems., <http://www.sun.com>.
- voluntary contributions made by Paul Eng on behalf of the Apache Software Foundation that were originally developed at iClick, Inc., software copyright (c) 1999.

Apache xml-commons xml-apis (redistribution of xml-apis.jar)

Apache XML Commons
Copyright 2001-2003,2006 The Apache Software Foundation.

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

Portions of this software were originally based on the following:

- software copyright (c) 1999, IBM Corporation., <http://www.ibm.com>.
- software copyright (c) 1999, Sun Microsystems., <http://www.sun.com>.
- software copyright (c) 2000 World Wide Web Consortium, <http://www.w3.org>

The following copyright notice(s) were affixed to portions of the code with which this file is now or was at one time distributed and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

1.56 Apache HttpClient 4.3.5

1.56.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

Apache HttpClient
Copyright 1999-2014 The Apache Software Foundation

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

1.57 Apache Jakarta Commons HttpClient

3.0.1

1.57.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

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

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

excluding those notices that do not pertain to any part of the Derivative Works; and

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

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

risks associated with Your exercise of permissions under this License.

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

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

END OF TERMS AND CONDITIONS

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

Work and such Derivative Works in Source or Object form.

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

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

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

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

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

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

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

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.58 archy 1.0.0

1.58.1 Available under license :

This software is released under the MIT license:

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

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

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

1.59 are-we-there-yet 1.0.4

1.59.1 Available under license :

```
{
  "name": "are-we-there-yet",
  "version": "1.0.4",
  "description": "Keep track of the overall completion of many disparate processes",
  "main": "index.js",
  "scripts": {
    "test": "tap test/*.js"
  },
  "repository": {
    "type": "git",
```



```
"url": "https://github.com/iarna/are-we-there-yet.git"
},
"author": "Rebecca Turner (http://re-becca.org)",
"license": "ISC",
"bugs": {
  "url": "https://github.com/iarna/are-we-there-yet/issues"
},
"homepage": "https://github.com/iarna/are-we-there-yet",
"devDependencies": {
  "tap": "^0.4.13"
},
"dependencies": {
  "delegates": "^0.1.0",
  "readable-stream": "^1.1.13"
}
}
```

1.60 arel 5.0.1.20140414130214

1.61 argparse 1.0.3

1.61.1 Available under license :

(The MIT License)

Copyright (C) 2012 by Vitaly Puzrin

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

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

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

1.62 arr-diff 1.1.0

1.62.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015 Jon Schlinkert.

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

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

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

1.63 arr-flatten 1.0.1

1.63.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

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

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

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

1.64 arr-pm 0.0.10

1.64.1 Available under license :

Copyright 2012 Jordan Sissel

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

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

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

1.65 array-differ 1.0.0

1.65.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.66 array-filter 0.0.1

1.66.1 Available under license :

```
# array-filter
```

```
`Array#filter` for older browsers.
```

```
[[!testling badge](https://ci.testling.com/juliangruber/array-filter.png)](https://ci.testling.com/juliangruber/array-filter)
```

```
[[!build status](https://secure.travis-ci.org/juliangruber/array-filter.png)](http://travis-ci.org/juliangruber/array-filter)
```

```
## Usage
```

```
```js
var filter = require('array-filter');

var array = [1, 2, 3];
console.log(filter(array, function (el, i, arr) {
 return false; // I throw it on the ground!
}));
// => []
```
```

```
## Installation
```

```
With [npm](http://npmjs.org) do
```

```
```bash
$ npm install array-filter
```
```

```
Then bundle for the browser with [browserify](https://github.com/substack/browserify).
```

```
## License
```

```
(MIT)
```

```
Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in
```

the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

1.67 array-map 0.0.0

1.67.1 Available under license :

This software is released under the MIT license:

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

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

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

1.68 array-reduce 0.0.0

1.68.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to

use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

1.69 array-slice 0.2.3

1.69.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert. Copyright (c) 2012-2015, The Dojo Foundation. Copyright (c) 2009-2015, Jeremy Ashkenas.

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

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

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

1.70 array-uniq 1.0.2

1.70.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

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

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

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

1.71 array-unique 0.2.1

1.71.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

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

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

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

1.72 ASM 4.0

1.72.1 Available under license :

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

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

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

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

1.73 ASM Core 4.0

1.73.1 Available under license :

/***

* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2011 INRIA, France Telecom
* All rights reserved.

*

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

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

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

1.74 asn1 0.1.11

1.74.1 Available under license :

Copyright (c) 2011 Mark Cavage, All rights reserved.

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

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

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

1.75 assert-plus 0.1.5

1.75.1 Available under license :

The MIT License (MIT)
Copyright (c) 2012 Mark Cavage

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

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

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

1.76 async 1.4.0

1.77 async 0.2.10-0

1.77.1 Available under license :

Copyright (c) 2010 Caolan McMahon

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.78 async 0.2.10

1.78.1 Available under license :

Copyright (c) 2010 Caolan McMahon

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

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

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

1.79 async-each 0.1.6

1.79.1 Available under license :

async-each

No-bullshit, ultra-simple, 35-lines-of-code async parallel forEach function for JavaScript.

We don't need junky 30K async libs. Really.

For browsers and node.js.

Installation

* Just include async-each before your scripts.

* `npm install async-each` if you're using node.js.

* `component install paulmillr/async-each` if you're using [component(1)](<https://github.com/component/component>).

* `bower install async-each` if you're using [Twitter Bower](<http://bower.io>).

Usage

- * `each(array, iterator, callback);` — `Array`, `Function`, `(optional) Function`
- * `iterator(item, next)` receives current item and a callback that will mark the item as done. `next` callback receives optional `error`, `transformedItem` arguments.
- * `callback(error, transformedArray)` optionally receives first error and transformed result `Array`.

Node.js:

```
````javascript
var each = require('async-each');
each(['a.js', 'b.js', 'c.js'], fs.readFile, function(error, contents) {
 if (error) console.error(error);
 console.log('Contents for a, b and c:', contents);
});
````
```

Browser:

```
````javascript
// component(1)
var each = require('async-each');
each(list, fn, callback);

// Default:
window.asyncEach(list, fn, callback);
````
```

License

The MIT License (MIT)

Copyright (c) 2013 Paul Miller (<http://paulmillr.com/>)

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

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

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.80 attr_encrypted 1.3.5

1.80.1 Available under license :

Copyright (c) 2008 Sean Huber - shuber@huberry.com

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

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

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

1.81 Avro-avro 1.7.5 :Java

1.81.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

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

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

License for the Jansson C JSON parser used in the C implementation:

Copyright (c) 2009 Petri Lehtinen <petri@digip.org>

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

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

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

License for the Json.NET used in the C# implementation:

Copyright (c) 2007 James Newton-King

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

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

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

License for msinttypes used in the C implementation:

Source from:

<http://code.google.com/p/msinttypes/downloads/detail?name=msinttypes-r26.zip>

Copyright (c) 2006-2008 Alexander Chemeris

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

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may be used to endorse or promote products derived from this software without specific prior written permission.

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

License for Diredt API for Microsoft Visual Studio used in the C implementation:

Source from:

<http://www.softgalleria.net/download/diredt/diredt-1.11.zip>

Copyright (C) 2006 Toni Ronkko

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

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

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL TONI RONKKO BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache Avro
Copyright 2010 The Apache Software Foundation

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

C JSON parsing provided by Jansson and
written by Petri Lehtinen. The original software is
available from <http://www.digip.org/jansson/>.

1.82 aws-sign2 0.5.0

1.82.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

END OF TERMS AND CONDITIONS

1.83 aws-sign2 0.5.0

1.83.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

Licensors for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

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

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

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

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

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

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

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

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any

additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

1.84 backports 3.6.8

1.84.1 Available under license :

Copyright (c) 2009 Marc-Andre Lafortune

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

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

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

Copyright (c) 2009 Marc-Andre Lafortune

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

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

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

1.85 balanced-match 0.3.0

1.85.1 Available under license :

(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.86 balanced-match 0.2.0

1.86.1 Available under license :

(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

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

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

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

1.87 base64-url 1.2.1

1.87.1 Available under license :

The ISC License

Copyright (c) 2014, Joaquim José F. Serafim

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.88 base64id 0.1.0

1.88.1 Available under license :

(The MIT License)

Copyright (c) 2012 Kristian Faeldt <faeldt_kristian@cyberagent.co.jp>

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

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

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

1.89 basic-auth 1.0.0

1.89.1 Available under license :

basic-auth

Generic basic auth Authorization header field parser for whatever.

Installation

...

\$ npm install basic-auth

...

Example

Pass a node request or koa Context object to the module exported. If

parsing fails `undefined` is returned, otherwise an object with
`.name` and `.pass`.

```
```js
var auth = require('basic-auth');
var user = auth(req);
// => { name: 'something', pass: 'whatever' }

...

License

MIT
```

## 1.90 basic-auth 1.0.3

### 1.90.1 Available under license :

(The MIT License)

Copyright (c) 2013 TJ Holowaychuk

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

## 1.91 basic-auth-connect 1.0.0

## 1.91.1 Available under license :

```
simgr - Simple Image Resizer [![Build Status](https://travis-ci.org/expressjs/basic-auth-connect.png)](https://travis-ci.org/expressjs/basic-auth-connect)
```

Connect's Basic Auth middleware in its own module. This module is considered deprecated. You should instead create your own middleware with [basic-auth](https://github.com/visionmedia/node-basic-auth).

```
API
```

```
```js
var basicAuth = require('basic-auth-connect');
```
```

Sorry, couldn't think of a more clever name.

Simple username and password

```
```js
connect()
.use(basicAuth('username', 'password'));
```
```

Callback verification

```
```js
connect()
.use(basicAuth(function(user, pass){
  return 'tj' == user && 'wahoo' == pass;
}))
```
```

Async callback verification, accepting `fn(err, user)`.

```
```
connect()
.use(basicAuth(function(user, pass, fn){
  User.authenticate({ user: user, pass: pass }, fn);
}))
```
```

```
License
```

The MIT License (MIT)

Copyright (c) 2013 Jonathan Ong me@jongleberry.com

Permission is hereby granted, free of charge, to any person obtaining a copy

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

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

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

## 1.92 batch 0.5.2

### 1.92.1 Available under license :

```
batch
```

Simple async batch with concurrency control and progress reporting.

```
Installation
```

```

```

```
$ npm install batch
```

```

```

```
API
```

```
```js
```

```
var Batch = require('batch')  
, batch = new Batch;
```

```
batch.concurrency(4);
```

```
ids.forEach(function(id){  
  batch.push(function(done){  
    User.get(id, done);  
  });  
});
```

```
batch.on('progress', function(e){
```

```
});
```

```
batch.end(function(err, users){
```

```
});
```

```
```
```

```
Progress events
```

Contain the "job" index, response value, duration information, and completion data.

```
```js
```

```
{ index: 1,  
  value: 'bar',  
  pending: 2,  
  total: 3,  
  complete: 2,  
  percent: 66,  
  start: Thu Oct 04 2012 12:25:53 GMT-0700 (PDT),  
  end: Thu Oct 04 2012 12:25:53 GMT-0700 (PDT),  
  duration: 0 }
```

```
```
```

```
License
```

(The MIT License)

Copyright (c) 2013 TJ Holowaychuk <tj@vision-media.ca>

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

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

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



## 1.93 bcrypt-ruby 3.1.7

### 1.93.1 Available under license :

(The MIT License)

Copyright 2007-2011:

\* Coda Hale <coda.hale@gmail.com>

C implementation of the BCrypt algorithm by Solar Designer and placed in the public domain.

jBCrypt is Copyright (c) 2006 Damien Miller <djm@mindrot.org>.

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

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

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

## 1.94 Bean Validation API 1.1.0.Final

### 1.94.1 Available under license :

/\*

\* Copyright 2009-2012, Red Hat, Inc. and/or its affiliates, and individual contributors

\* by the @authors tag. See the copyright.txt in the distribution for a

\* full listing of individual contributors.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\* <http://www.apache.org/licenses/LICENSE-2.0>

\* Unless required by applicable law or agreed to in writing, software

- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.
- \*/

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

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

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

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

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

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

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

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

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

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

marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

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

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

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

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

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

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

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

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

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

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

any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

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

Copyright [yyyy] [name of copyright owner]

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

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

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.95 Beanshell 2.0b4

### 1.95.1 Available under license :

SUN PUBLIC LICENSE Version 1.0

#### 1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof and corresponding documentation released with the source code.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or

subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code"../ means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code"../ means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated documentation, interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control"../ means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

## 2.1 The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by:

i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

## 2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or

portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

#### 3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the



Electronic Distribution Mechanism is maintained by a third party.

### 3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

### 3.4. Intellectual Property Matters.

#### (a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled `../LEGAL` which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

#### (b) Contributor APIs.

If Contributor's Modifications include an application programming interface ("`API`"..) and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

#### (c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License

.

### 3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code

not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

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

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

#### 5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

#### 6. Versions of the License.

##### 6.1. New Versions.

Sun Microsystems, Inc. ("Sun") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

##### 6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Sun. No one other than Sun has the right to modify the terms applicable to Covered Code created under this License.

##### 6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must: (a) rename Your license so that the phrases "Sun," "Sun Public License," or "SPL"../ or any confusingly

similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Sun Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

## 7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days

of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

## 9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

## 10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48

C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation,"../ as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

#### 11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

#### 12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### 13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

Exhibit A -Sun Public License Notice.

The contents of this file are subject to the Sun Public License  
Version 1.0 (the License); you may not use this file except in  
compliance with the License. A copy of the License is available at  
<http://www.sun.com/>

The Original Code is \_\_\_\_\_. The Initial Developer of the  
Original Code is \_\_\_\_\_. Portions created by \_\_\_\_\_ are Copyright  
(C)\_\_\_\_\_. All Rights Reserved.

Contributor(s): \_\_\_\_\_.

Alternatively, the contents of this file may be used under the terms  
of the \_\_\_\_\_ license (the "[ ] License?"), in which case the  
provisions of [ ] License are applicable instead of those above.

If you wish to allow use of your version of this file only under the  
terms of the [ ] License and not to allow others to use your  
version of this file under the SPL, indicate your decision by deleting  
the provisions above and replace them with the notice and other  
provisions required by the [ ] License. If you do not delete the  
provisions above, a recipient may use your version of this file under  
either the SPL or the [ ] License.

[NOTE: The text of this Exhibit A may differ slightly from the text of  
the notices in the Source Code files of the Original Code. You should  
use the text of this Exhibit A rather than the text found in the

## 1.96 beeper 1.1.0

### 1.96.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

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

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

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

## 1.97 better\_errors 2.1.1

### 1.97.1 Available under license :

Copyright (c) 2012 Charlie Somerville

MIT License

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,



EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 Charlie Somerville

MIT License

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

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

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

## 1.98 binary 0.3.0

### 1.98.1 Available under license :

```
{
 "name" : "binary",
 "version" : "0.3.0",
 "description" : "Unpack multibyte binary values from buffers",
 "main" : "./index.js",
 "repository" : {
 "type" : "git",
 "url" : "http://github.com/substack/node-binary.git"
 },
 "keywords": [
 "binary",
 "decode",
 "endian",
 "unpack",
 "signed",
```

```

 "unsigned"
],
 "author" : {
 "name" : "James Halliday",
 "email" : "mail@substack.net",
 "url" : "http://substack.net"
 },
 "dependencies" : {
 "chainsaw" : "~0.1.0",
 "buffers" : "~0.1.1"
 },
 "devDependencies" : {
 "seq" : "~0.2.5",
 "tap" : "~0.2.4"
 },
 "scripts" : {
 "test" : "tap test/*.js"
 },
 "license" : "MIT",
 "engine" : {
 "node" : ">=0.4.0"
 }
}

```

## 1.99 binary-extensions 1.3.1

### 1.99.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

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

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

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

# 1.100 bl 0.9.4

## 1.100.1 Available under license :

The MIT License (MIT)

=====

Copyright (c) 2014 bl contributors

-----

\*bl contributors listed at <<https://github.com/rvagg/bl#contributors>>\*

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

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

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

# 1.101 bl 1.0.0

## 1.101.1 Available under license :

The MIT License (MIT)

=====

Copyright (c) 2014 bl contributors

-----

\*bl contributors listed at <<https://github.com/rvagg/bl#contributors>>\*

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

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

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

## 1.102 block-stream 0.0.8

### 1.102.1 Available under license :

Copyright (c) Isaac Z. Schlueter  
All rights reserved.

The BSD License

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

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

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

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR

ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.103 bluebird 2.9.34

## 1.103.1 Available under license :

```


[![Build Status](https://travis-ci.org/petkaantonov/bluebird.svg?branch=master)](https://travis-ci.org/petkaantonov/bluebird)
[![coverage-98%](http://img.shields.io/badge/coverage-98%-brightgreen.svg?style=flat)](http://petkaantonov.github.io/bluebird/coverage/debug/index.html)
```

### # Introduction

Bluebird is a fully featured [promise](#what-are-promises-and-why-should-i-use-them) library with focus on innovative features and performance

### # Topics

- [Features](#features)
- [Quick start](#quick-start)
- [API Reference and examples](API.md)
- [Support](#support)
- [What are promises and why should I use them?](#what-are-promises-and-why-should-i-use-them)
- [Questions and issues](#questions-and-issues)
- [Error handling](#error-handling)
- [Development](#development)
  - [Testing](#testing)
  - [Benchmarking](#benchmarks)
  - [Custom builds](#custom-builds)
  - [For library authors](#for-library-authors)
- [What is the sync build?](#what-is-the-sync-build)
- [License](#license)
- [Snippets for common problems](https://github.com/petkaantonov/bluebird/wiki/Snippets)
- [Promise anti-patterns](https://github.com/petkaantonov/bluebird/wiki/Promise-anti-patterns)
- [Changelog](changelog.md)
- [Optimization guide](#optimization-guide)

### # Features



- [Promises A+](http://promisesaplus.com)
- [Synchronous inspection](API.md#synchronous-inspection)
- [Concurrency coordination](API.md#collections)
- [Promisification on steroids](API.md#promisification)
- [Resource management through a parallel of python `with`/C# `using`](API.md#resource-management)
- [Cancellation and timeouts](API.md#cancellation)
- [Parallel for C# `async` and `await`](API.md#generators)
- Mind blowing utilities such as
  - [`.bind()`](API.md#binddynamic-thisarg---promise)
  - [`.call()`](API.md#callstring-propertyname--dynamic-arg---promise)
  - [`.Promise.join()`](API.md#promisejoinpromisethenablevalue-promises-function-handler---promise)
  - [`.And()`](API.md#core) [`.much()`](API.md#timers) [`.more()`](API.md#utility)!
- [Practical debugging solutions and sane defaults](#error-handling)
- [Sick performance](benchmark/)

<hr>

# Quick start

## Node.js

```
npm install bluebird
```

Then:

```
```js
var Promise = require("bluebird");
```
```

## Browsers

There are many ways to use bluebird in browsers:

- Direct downloads
  - Full build [bluebird.js](https://cdn.jsdelivr.net/bluebird/latest/bluebird.js)
  - Full build minified [bluebird.min.js](https://cdn.jsdelivr.net/bluebird/latest/bluebird.min.js)
- You may use browserify on the main export
- You may use the [bower](http://bower.io) package.

When using script tags the global variables `Promise` and `P` (alias for `Promise`) become available.

A [minimal bluebird browser build](#custom-builds) is  $\approx$ 38.92KB minified\*, 11.65KB gzipped and has no external dependencies.

\*Google Closure Compiler using Simple.

#### #### Browser support

Browsers that [implement ECMA-262, edition 3](<http://en.wikipedia.org/wiki/EcmaScript#Implementations>) and later are supported.

[![Selenium Test Status]([https://saucelabs.com/browser-matrix/petka\\_antonov.svg](https://saucelabs.com/browser-matrix/petka_antonov.svg))]([https://saucelabs.com/u/petka\\_antonov](https://saucelabs.com/u/petka_antonov))

**Note** that in ECMA-262, edition 3 (IE7, IE8 etc.) it is not possible to use methods that have keyword names like `.catch`` and `.finally``. The [API documentation](API.md) always lists a compatible alternative name that you can use if you need to support these browsers. For example `.catch`` is replaced with `.caught`` and `.finally`` with `.lastly``.

Also, [long stack trace](API.md#promiselongstacktraces---void) support is only available in Chrome, Firefox and Internet Explorer 10+.

After quick start, see [API Reference and examples](API.md)

<hr>

#### # Support

- Mailing list: [bluebird-js@googlegroups.com](<https://groups.google.com/forum/#!forum/bluebird-js>)
- IRC: #promises @freenode
- StackOverflow: [bluebird tag](<http://stackoverflow.com/questions/tagged/bluebird>)
- Bugs and feature requests: [github issue tracker](<https://github.com/petkaantonov/bluebird/issues?state=open>)

<hr>

#### # What are promises and why should I use them?

You should use promises to turn this:

```
```js
fs.readFile("file.json", function(err, val) {
  if( err ) {
    console.error("unable to read file");
  }
  else {
    try {
      val = JSON.parse(val);
      console.log(val.success);
    }
    catch( e ) {
      console.error("invalid json in file");
    }
  }
});
```

...

Into this:

```
```js
fs.readFileAsync("file.json").then(JSON.parse).then(function(val) {
 console.log(val.success);
})
.catch(SyntaxError, function(e) {
 console.error("invalid json in file");
})
.catch(function(e) {
 console.error("unable to read file");
});
```
```

If you are wondering "there is no `readFileAsync` method on `fs` that returns a promise", see [\[promisification\]\(API.md#promisification\)](#)

Actually you might notice the latter has a lot in common with code that would do the same using synchronous I/O:

```
```js
try {
 var val = JSON.parse(fs.readFileSync("file.json"));
 console.log(val.success);
}
//Syntax actually not supported in JS but drives the point
catch(SyntaxError e) {
 console.error("invalid json in file");
}
catch(Error e) {
 console.error("unable to read file");
}
```
```

And that is the point - being able to have something that is a lot like `return` and `throw` in synchronous code.

You can also use promises to improve code that was written with callback helpers:

```
```js
//Copyright Plato http://stackoverflow.com/a/19385911/995876
//CC BY-SA 2.5
mapSeries(URLs, function (URL, done) {
 var options = {};
 needle.get(URL, options, function (error, response, body) {
 if (error) {
 return done(error);
 }
 });
});
```
```



```

    }
    try {
        var ret = JSON.parse(body);
        return done(null, ret);
    }
    catch (e) {
        done(e);
    }
});
}, function (err, results) {
    if (err) {
        console.log(err);
    } else {
        console.log('All Needle requests successful');
        // results is a 1 to 1 mapping in order of URLs > needle.body
        processAndSaveAllInDB(results, function (err) {
            if (err) {
                return done(err);
            }
            console.log('All Needle requests saved');
            done(null);
        });
    }
});
```

```

Is more pleasing to the eye when done with promises:

```

```js
Promise.promisifyAll(needle);
var options = {};

var current = Promise.resolve();
Promise.map(URLs, function(URL) {
    current = current.then(function () {
        return needle.getAsync(URL, options);
    });
    return current;
}).map(function(responseAndBody){
    return JSON.parse(responseAndBody[1]);
}).then(function (results) {
    return processAndSaveAllInDB(results);
}).then(function(){
    console.log('All Needle requests saved');
}).catch(function (e) {
    console.log(e);
});
```

```

Also promises don't just give you correspondences for synchronous features but can also be used as limited event emitters or callback aggregators.

More reading:

- [Promise nuggets](<https://promise-nuggets.github.io/>)
- [Why I am switching to promises](<http://spion.github.io/posts/why-i-am-switching-to-promises.html>)
- [What is the the point of promises]([http://domic.me/2012/10/14/youre-missing-the-point-of-promises/#toc\\_1](http://domic.me/2012/10/14/youre-missing-the-point-of-promises/#toc_1))
- [Snippets for common problems](<https://github.com/petkaantonov/bluebird/wiki/Snippets>)
- [Promise anti-patterns](<https://github.com/petkaantonov/bluebird/wiki/Promise-anti-patterns>)

## # Questions and issues

If you find a bug in bluebird or have a feature request, file an issue in the [github issue tracker](<https://github.com/petkaantonov/bluebird/issues>). Anything else, such as questions for help in using the library, should be posted in [StackOverflow](<http://stackoverflow.com/questions/tagged/bluebird>) under tags ``promise`` and ``bluebird``.

## # Error handling

This is a problem every promise library needs to handle in some way. Unhandled rejections/exceptions don't really have a good agreed-on asynchronous correspondence. The problem is that it is impossible to predict the future and know if a rejected promise will eventually be handled.

There are two common pragmatic attempts at solving the problem that promise libraries do.

The more popular one is to have the user explicitly communicate that they are done and any unhandled rejections should be thrown, like so:

```
```js
download().then(...).then(...).done();
```
```

For handling this problem, in my opinion, this is completely unacceptable and pointless. The user must remember to explicitly call ``done`` and that cannot be justified when the problem is forgetting to create an error handler in the first place.

The second approach, which is what bluebird by default takes, is to call a registered handler if a rejection is unhandled by the start of a second turn. The default handler is to write the stack trace to ``stderr`` or ``console.error`` in browsers. This is close to what happens with synchronous code - your code doesn't work as expected and you open console and see a stack trace. Nice.

Of course this is not perfect, if your code for some reason needs to swoop in and attach error handler to some promise after the promise has been hanging around a while then you will see annoying messages. In that case you can use the ``done()`` method to signal that any hanging exceptions should be thrown.

If you want to override the default handler for these possibly unhandled rejections, you can pass yours like so:

```
```js
Promise.onPossiblyUnhandledRejection(function(error){
  throw error;
});
```
```

If you want to also enable long stack traces, call:

```
```js
Promise.longStackTraces();
```
```

right after the library is loaded.

In node.js use the environment flag `BLUEBIRD_DEBUG``:

```
```
BLUEBIRD_DEBUG=1 node server.js
```
```

to enable long stack traces in all instances of bluebird.

Long stack traces cannot be disabled after being enabled, and cannot be enabled after promises have already been created. Long stack traces imply a substantial performance penalty, even after using every trick to optimize them.

Long stack traces are enabled by default in the debug build.

#### #### Expected and unexpected errors

A practical problem with Promises/A+ is that it models Javascript `try-catch` too closely for its own good. Therefore by default promises inherit `try-catch` warts such as the inability to specify the error types that the catch block is eligible for. It is an anti-pattern in every other language to use catch-all handlers because they swallow exceptions that you might not know about.

Now, Javascript does have a perfectly fine and working way of creating error type hierarchies. It is still quite awkward to use them with the built-in `try-catch` however:

```
```js
try {
  //code
}
catch(e) {
  if( e instanceof WhatIWantError) {
    //handle
  }
  else {
    throw e;
  }
}
```

```
}  
}  
...
```

Without such checking, unexpected errors would be silently swallowed. However, with promises, bluebird brings the future (hopefully) here now and extends the `.catch` to [accept potential error type eligibility](API.md#catchfunction-errorclass-function-handler---promise).

For instance here it is expected that some evil or incompetent entity will try to crash our server from `SyntaxError` by providing syntactically invalid JSON:

```
```js  
getJSONFromSomewhere().then(function(jsonString) {
 return JSON.parse(jsonString);
}).then(function(object) {
 console.log("it was valid json: ", object);
}).catch(SyntaxError, function(e){
 console.log("don't be evil");
});
```
```

Here any kind of unexpected error will be automatically reported on `stderr` along with a stack trace because we only register a handler for the expected `SyntaxError`.

Ok, so, that's pretty neat. But actually not many libraries define error types and it is in fact a complete ghetto out there with ad hoc strings being attached as some arbitrary property name like `.name`, `.type`, `.code`, not having any property at all or even throwing strings as errors and so on. So how can we still listen for expected errors?

Bluebird defines a special error type `OperationalError` (you can get a reference from `Promise.OperationalError`). This type of error is given as rejection reason by promisified methods when their underlying library gives an untyped, but expected error. Primitives such as strings, and error objects that are directly created like `new Error("database didn't respond")` are considered untyped.

Example of such library is the node core library `fs`. So if we promisify it, we can catch just the errors we want pretty easily and have programmer errors be redirected to unhandled rejection handler so that we notice them:

```
```js  
//Read more about promisification in the API Reference:
//API.md
var fs = Promise.promisifyAll(require("fs"));

fs.readFileAsync("myfile.json").then(JSON.parse).then(function (json) {
 console.log("Successful json");
}).catch(SyntaxError, function (e) {
 console.error("file contains invalid json");
}).catch(Promise.OperationalError, function (e) {
 console.error("unable to read file, because: ", e.message);
});
```
```

...

The last `catch` handler is only invoked when the `fs` module explicitly used the `err` argument convention of async callbacks to inform of an expected error. The `OperationalError` instance will contain the original error in its `.cause` property but it does have a direct copy of the `.message` and `.stack` too. In this code any unexpected error - be it in our code or the `fs` module - would not be caught by these handlers and therefore not swallowed.

Since a `catch` handler typed to `Promise.OperationalError` is expected to be used very often, it has a neat shorthand:

```
```js
.error(function (e) {
 console.error("unable to read file, because: ", e.message);
});
```
```

See [API documentation for `.error()`](API.md#error-rejectedhandler----promise)

Finally, Bluebird also supports predicate-based filters. If you pass a predicate function instead of an error type, the predicate will receive the error as an argument. The return result will be used to determine whether the error handler should be called.

Predicates should allow for very fine grained control over caught errors: pattern matching, error typesets with set operations and many other techniques can be implemented on top of them.

Example of using a predicate-based filter:

```
```js
var Promise = require("bluebird");
var request = Promise.promisify(require("request"));

function clientError(e) {
 return e.code >= 400 && e.code < 500;
}

request("http://www.google.com").then(function(contents){
 console.log(contents);
}).catch(clientError, function(e){
 //A client error like 400 Bad Request happened
});
```
```

****Danger:**** The JavaScript language allows throwing primitive values like strings. Throwing primitives can lead to worse or no stack traces. Primitives [are not exceptions](<http://www.devthought.com/2011/12/22/a-string-is-not-an-error/>). You should consider always throwing Error objects when handling exceptions.

<hr>

How do long stack traces differ from e.g. Q?

Bluebird attempts to have more elaborate traces. Consider:

```
```js
Error.stackTraceLimit = 25;
Q.longStackSupport = true;
Q().then(function outer() {
 return Q().then(function inner() {
 return Q().then(function evenMoreInner() {
 a.b.c.d();
 }).catch(function catcher(e){
 console.error(e.stack);
 });
 });
});
```
```

You will see

```
ReferenceError: a is not defined
  at evenMoreInner (<anonymous>:7:13)
From previous event:
  at inner (<anonymous>:6:20)
```

Compare to:

```
```js
Error.stackTraceLimit = 25;
Promise.longStackTraces();
Promise.resolve().then(function outer() {
 return Promise.resolve().then(function inner() {
 return Promise.resolve().then(function evenMoreInner() {
 a.b.c.d();
 }).catch(function catcher(e){
 console.error(e.stack);
 });
 });
});
```
```

```
ReferenceError: a is not defined
  at evenMoreInner (<anonymous>:7:13)
From previous event:
  at inner (<anonymous>:6:36)
From previous event:
```

at outer (<anonymous>:5:32)

From previous event:

at <anonymous>:4:21

at Object.InjectedScript._evaluateOn (<anonymous>:572:39)

at Object.InjectedScript._evaluateAndWrap (<anonymous>:531:52)

at Object.InjectedScript.evaluate (<anonymous>:450:21)

A better and more practical example of the differences can be seen in gorgikosev's [debuggability competition](<https://github.com/spion/async-compare#debuggability>).

<hr>

Development

For development tasks such as running benchmarks or testing, you need to clone the repository and install dependencies.

Install [node](<http://nodejs.org/>) and [npm](<https://npmjs.org/>)

```
git clone git@github.com:petkaantonov/bluebird.git
cd bluebird
npm install
```

Testing

To run all tests, run

```
node tools/test
```

If you need to run generator tests run the `tool/test.js` script with `--harmony` argument and node 0.11+:

```
node-dev --harmony tools/test
```

You may specify an individual test file to run with the `--run` script flag:

```
node tools/test --run=cancel.js
```

This enables output from the test and may give a better idea where the test is failing. The parameter to `--run` can be any file name located in `test/mocha` folder.

Testing in browsers

To run the test in a browser instead of node, pass the flag `--browser` to the test tool

```
node tools/test --run=cancel.js --browser
```

This will automatically create a server (default port 9999) and open it in your default browser once the tests have been compiled.

Keep the test tab active because some tests are timing-sensitive and will fail if the browser is throttling timeouts. Chrome will do this for example when the tab is not active.

Supported options by the test tool

The value of boolean flags is determined by presence, if you want to pass false value for a boolean flag, use the `no-` prefix e.g. `--no-browser`.

- `--run=String` - Which tests to run (or compile when testing in browser). Default `all`. Can also be a glob string (relative to ./test/mocha folder).
- `--cover=String` . Create code coverage using the String as istanbul reporter. Coverage is created in the ./coverage folder. No coverage is created by default, default reporter is `html` (use `--cover` to use default reporter).
- `--browser` - Whether to compile tests for browsers. Default `false`.
- `--port=Number` - Port where local server is hosted when testing in browser. Default `9999`
- `--execute-browser-tests` - Whether to execute the compiled tests for browser when using `--browser`. Default `true`.
- `--open-browser` - Whether to open the default browser when executing browser tests. Default `true`.
- `--fake-timers` - Whether to use fake timers (`setTimeout` etc) when running tests in node. Default `true`.
- `--js-hint` - Whether to run JSHint on source files. Default `true`.
- `--saucelabs` - Whether to create a tunnel to sauce labs and run tests in their VMs instead of your browser when compiling tests for browser. Default `false`.

Benchmarks

To run a benchmark, run the given command for a benchmark while on the project root. Requires bash (on windows the mingw32 that comes with git works fine too).

Node 0.11.2+ is required to run the generator examples.

1\ DoxBee sequential

Currently the most relevant benchmark is @gorkikosev's benchmark in the article [Analysis of generators and other async patterns in node](<http://spion.github.io/posts/analysis-generators-and-other-async-patterns-node.html>). The benchmark emulates a situation where n amount of users are making a request in parallel to execute some mixed async/sync action. The benchmark has been modified to include a warm-up phase to minimize any JITting during timed sections.

Command: `bench doxbee`

2\ Made-up parallel

This made-up scenario runs 15 shimmed queries in parallel.

Command: `bench parallel`

Custom builds

Custom builds for browsers are supported through a command-line utility.

```
<table>
  <caption>The following features can be disabled</caption>
  <thead>
    <tr>
      <th>Feature(s)</th>
      <th>Command line identifier</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td><a href="API.md#any---promise"><code>.any</code></a> and <a href="API.md#promiseanyarraydynamicpromise-values---promise"><code>Promise.any</code></a></td>
      <td><code>any</code></td>
    </tr>
    <tr>
      <td><a href="API.md#race---promise"><code>.race</code></a> and <a href="API.md#promiseraarraypromise-promises---promise"><code>Promise.race</code></a></td>
      <td><code>race</code></td>
    </tr>
    <tr>
      <td><a href="API.md#callstring-propertyname--dynamic-arg---promise"><code>.call</code></a> and <a href="API.md#getstring-propertyname---promise"><code>.get</code></a></td>
      <td><code>call_get</code></td>
    </tr>
    <tr>
      <td><a href="API.md#filterfunction-filterer--promise"><code>.filter</code></a> and <a href="API.md#promisefilterarraydynamicpromise-values-function-filterer---promise"><code>Promise.filter</code></a></td>
      <td><code>filter</code></td>
    </tr>
    <tr>
      <td><a href="API.md#mapfunction-mapper---promise"><code>.map</code></a> and <a href="API.md#promisemaparraydynamicpromise-values-function-mapper---promise"><code>Promise.map</code></a></td>
      <td><code>map</code></td>
    </tr>
    <tr>
      <td><a href="API.md#reducefunction-reducer--dynamic-initialvalue---promise"><code>.reduce</code></a> and <a href="API.md#promisereducearraydynamicpromise-values-function-reducer--dynamic-initialvalue---promise"><code>Promise.reduce</code></a></td>
      <td><code>reduce</code></td>
    </tr>
    <tr>
      <td><a href="API.md#props---promise"><code>.props</code></a> and <a href="API.md#promisepropsobjectpromise-object---promise"><code>Promise.props</code></a></td>
      <td><code>props</code></td>
    </tr>
    <tr>
      <td><a href="API.md#settle---promise"><code>.settle</code></a> and <a href="API.md#promisesettlearraydynamicpromise-values---promise"><code>Promise.settle</code></a></td>
      <td><code>settle</code></td>
    </tr>
    <tr>
      <td><a href="API.md#someint-count---promise"><code>.some</code></a> and <a href="API.md#promisesomearraydynamicpromise-values-int-count---promise"><code>Promise.some</code></a></td>
      <td><code>some</code></td>
    </tr>
    <tr>
      <td><a href="API.md#nodeifyfunction-callback---promise"><code>.nodeify</code></a></td>
      <td><code>nodeify</code></td>
    </tr>
    <tr>
      <td><a href="API.md#promisecoroutinegeneratorfunction-generatorfunction---function"><code>Promise.coroutine</code></a> and <a href="API.md#promisespawngeneratorfunction-generatorfunction---promise"><code>Promise.spawn</code></a></td>
      <td><code>generators</code></td>
    </tr>
  </tbody>
</table>
```

```

<tr><td><a href="API.md#progression">Progression</a></td><td><code>progress</code></td></tr>
<tr><td><a href="API.md#promisification">Promisification</a></td><td><code>promisify</code></td></tr>
<tr><td><a href="API.md#cancellation">Cancellation</a></td><td><code>cancel</code></td></tr>
<tr><td><a href="API.md#timers">Timers</a></td><td><code>timers</code></td></tr>
<tr><td><a href="API.md#resource-management">Resource
management</a></td><td><code>using</code></td></tr>

</tbody>
</table>

```

Make sure you have cloned the repo somewhere and did `npm install` successfully.

After that you can run:

```
node tools/build --features="core"
```

The above builds the most minimal build you can get. You can add more features separated by spaces from the above list:

```
node tools/build --features="core filter map reduce"
```

The custom build file will be found from `/js/browser/bluebird.js`. It will have a comment that lists the disabled and enabled features.

Note that the build leaves the `/js/main` etc folders with same features so if you use the folder for node.js at the same time, don't forget to build a full version afterwards (after having taken a copy of the bluebird.js somewhere):

```
node tools/build --debug --main --zalgo --browser --minify
```

Supported options by the build tool

The value of boolean flags is determined by presence, if you want to pass false value for a boolean flag, use the `no-` prefix e.g. `--no-debug`.

- `--main` - Whether to build the main build. The main build is placed at `js/main` directory. Default `false`.
- `--debug` - Whether to build the debug build. The debug build is placed at `js/debug` directory. Default `false`.
- `--zalgo` - Whether to build the zalgo build. The zalgo build is placed at `js/zalgo` directory. Default `false`.
- `--browser` - Whether to compile the browser build. The browser build file is placed at `js/browser/bluebird.js` Default `false`.
- `--minify` - Whether to minify the compiled browser build. The minified browser build file is placed at `js/browser/bluebird.min.js` Default `true`.
- `--features=String` - See [custom builds](#custom-builds)

<hr>

For library authors

Building a library that depends on bluebird? You should know about a few features.

If your library needs to do something obtrusive like adding or modifying methods on the `Promise` prototype, uses long stack traces or uses a custom unhandled rejection handler then... that's totally ok as long as you don't use `require("bluebird")`. Instead you should create a file that creates an isolated copy. For example, creating a file called `bluebird-extended.js` that contains:

```
```js
 //NOTE the function call right after
 module.exports = require("bluebird/js/main/promise");
```
```

Your library can then use `var Promise = require("bluebird-extended");` and do whatever it wants with it. Then if the application or other library uses their own bluebird promises they will all play well together because of Promises/A+ thenable assimilation magic.

You should also know about [`.nodeify()`](API.md#nodeifyfunction-callback---promise) which makes it easy to provide a dual callback/promise API.

<hr>

What is the sync build?

You may now use sync build by:

```
var Promise = require("bluebird/zalgo");
```

The sync build is provided to see how forced asynchrony affects benchmarks. It should not be used in real code due to the implied hazards.

The normal async build gives Promises/A+ guarantees about asynchronous resolution of promises. Some people think this affects performance or just plain love their code having a possibility of stack overflow errors and non-deterministic behavior.

The sync build skips the async call trampoline completely, e.g code like:

```
async.invoke( this.fn, this, val );
```

Appears as this in the sync build:

```
this.fn(val);
```

This should pressure the CPU slightly less and thus the sync build should perform better. Indeed it does, but only marginally. The biggest performance boosts are from writing efficient Javascript, not from compromising determinism.

Note that while some benchmarks are waiting for the next event tick, the CPU is actually not in use during that time. So the resulting benchmark result is not completely accurate because on node.js you only care about how much the CPU is taxed. Any time spent on CPU is time the whole process (or server) is paralyzed. And it is not graceful like it would be with threads.

```
```js
var cache = new Map(); //ES6 Map or DataStructures/Map or whatever...
function getResult(url) {
 var resolver = Promise.pending();
 if (cache.has(url)) {
 resolver.resolve(cache.get(url));
 }
 else {
 http.get(url, function(err, content) {
 if (err) resolver.reject(err);
 else {
 cache.set(url, content);
 resolver.resolve(content);
 }
 });
 }
 return resolver.promise;
}
}
```

```
//The result of console.log is truly random without async guarantees
function guessWhatItPrints(url) {
 var i = 3;
 getResult(url).then(function(){
 i = 4;
 });
 console.log(i);
}
...

```

#### # Optimization guide

Articles about optimization will be periodically posted in [the wiki section](<https://github.com/petkaantonov/bluebird/wiki>), polishing edits are welcome.

A single cohesive guide compiled from the articles will probably be done eventually.

#### # License

The MIT License (MIT)

Copyright (c) 2014 Petka Antonov

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

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

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

## 1.104 bluebird 2.3.11

### 1.104.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Petka Antonov

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

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

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

# 1.105 body-parser 1.13.3

## 1.105.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

(The MIT License)

Copyright (c) 2014 Guillermo Rauch <rauchg@gmail.com>

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

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

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

The MIT License (MIT)

Copyright (c) 2013-2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

(The MIT License)

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

(The MIT License)

Copyright (c) 2014 Douglas Christopher Wilson

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

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

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

Copyright (c) 2014 Nathan LaFreniere and other contributors.

All rights reserved.

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

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

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

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/qs/graphs/contributors>



(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong me@jungleberry.com

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

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

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

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2011 Alexander Shtuchkin

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

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

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

(The MIT License)

Copyright (c) 2015 Douglas Christopher Wilson

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

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

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2013 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

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

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

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

# 1.106 bonecp 0.8.0.RELEASE

## 1.106.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

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

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

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

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

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

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

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

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

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

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

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

## END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.107 boom 2.10.1

## 1.107.1 Available under license :

Copyright (c) 2012-2014, Walmart and other contributors.  
All rights reserved.

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

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY

DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/boom/graphs/contributors>

# 1.108 boom 2.8.0

## 1.108.1 Available under license :

Copyright (c) 2012-2014, Walmart and other contributors.  
All rights reserved.

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

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



\* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

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

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/boom/graphs/contributors>

## 1.109 boom 0.4.2

### 1.109.1 Available under license :

Copyright (c) 2012-2013, Walmart.

All rights reserved.

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

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

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

# 1.110 boon-boon-bundle 0.33

## 1.110.1 Available under license :

Slumberdb is licensed under the Apache License, Version 2.0 (the "License");  
You may not use this file except in compliance with the License.

You may obtain a copy of the License at

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

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

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

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

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

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

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

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

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

"Derivative Works" shall mean any work, whether in Source or Object form, that

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

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

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

## 2. Grant of Copyright License.

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

## 3. Grant of Patent License.

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

## 4. Redistribution.

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

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

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

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

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

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

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

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

#### 7. Disclaimer of Warranty.

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

#### 8. Limitation of Liability.

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

#### 9. Accepting Warranty or Additional Liability.

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

#### END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

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

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

## 1.111 bootstrap-bower 0.13.2

### 1.111.1 Available under license :

"license": "MIT"

## 1.112 bootstrap-sass 3.1.1.0

### 1.112.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Twitter, Inc

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

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

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

## 1.113 bosun 0.2.4

## 1.113.1 Available under license :

The following files were ported to Go from C files of libyaml, and thus are still covered by their original copyright and license:

apic.go  
emitterc.go  
parserc.go  
readerc.go  
scannerc.go  
writerc.go  
yamlh.go  
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

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

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

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

Copyright (c) 2011-2014 - Canonical Inc.

This software is licensed under the LGPLv3, included below.

As a special exception to the GNU Lesser General Public License version 3 ("LGPL3"), the copyright holders of this Library give you permission to convey to a third party a Combined Work that links statically or dynamically to this Library without providing any Minimal Corresponding Source or Minimal Application Code as set out in 4d or providing the installation information set out in section 4e, provided that you comply with the other provisions of LGPL3 and provided that you meet, for the Application the terms and conditions of the license(s) which apply to the Application.

Except as stated in this special exception, the provisions of LGPL3 will

continue to comply in full to this Library. If you modify this Library, you may apply this exception to your version of this Library, but you are not obliged to do so. If you do not wish to do so, delete this exception statement from your version. This exception does not (and cannot) modify any license terms which apply to the Application, with which you must still comply.

## GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

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

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

### 0. Additional Definitions.

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

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

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

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

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

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



### 1. Exception to Section 3 of the GNU GPL.

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

### 2. Conveying Modified Versions.

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

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

### 3. Object Code Incorporating Material from Library Header Files.

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

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

### 4. Combined Works.

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

- a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are

covered by this License.

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

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

d) Do one of the following:

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

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

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

## 5. Combined Libraries.

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

a) Accompany the combined library with a copy of the same work based

on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

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

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

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

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

Copyright (c) 2012 The Go Authors. All rights reserved.

Copyright (c) 2012 fsnotify Authors. All rights reserved.

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

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

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

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

Copyright (c) 2015 Stack Exchange

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

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

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

The MIT License (MIT)

Copyright (c) 2013 Stack Exchange

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER

IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013 Joshua Tacoma

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

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

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

The MIT License (MIT)

Copyright 2012-2015 Oliver Eilhard

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

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

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

The MIT License (MIT)

Copyright (c) 2013 Ben Johnson

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

the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

The MIT License (MIT)

Copyright (c) 2013 Jordan Wright

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

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

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

Copyright (c) 2012 The Go Authors. All rights reserved.

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

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

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

Copyright 2013 Facebook, Inc

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

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

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

BSD License

For httpcontrol software

Copyright (c) 2014, Facebook, Inc. All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR

ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2013 Tatsushi Demachi

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

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

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

Copyright (c) 2014 Volker Dobler. All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT



LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Vaughan Newton

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

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

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

Copyright (c) 2012 Rodrigo Moraes. All rights reserved.

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

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

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

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012-2014, Martin Angers & Contributors

All rights reserved.

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

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

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

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

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

Copyright (c) 2011 Andy Balholm. All rights reserved.

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

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
#!/usr/bin/python
```

```
This file is part of tcollector.
```

```
Copyright (C) 2013 The tcollector Authors.
```

```
#
```

```
This program is free software: you can redistribute it and/or modify it
```

```
under the terms of the GNU Lesser General Public License as published by
```

```
the Free Software Foundation, either version 3 of the License, or (at your
```

```
option) any later version. This program is distributed in the hope that it
```

```
will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty
```

```
of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser
```

```
General Public License for more details. You should have received a copy
```

```
of the GNU Lesser General Public License along with this program. If not,
```

```
see <http://www.gnu.org/licenses/>.
```

```
/*
```

```
Copyright 2012 Google Inc.
```

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

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

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

```
*/
```

```
// Copyright 2012 The Freetype-Go Authors. All rights reserved.
```

```
// Use of this source code is governed by your choice of either the
```

```
// FreeType License or the GNU General Public License version 2 (or
```

```
// any later version), both of which can be found in the LICENSE file.
```

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates

the terms and conditions of version 3 of the GNU General Public

License, supplemented by the additional permissions listed below.

0. Additional Definitions.

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

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

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

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

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

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

#### 1. Exception to Section 3 of the GNU GPL.

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

#### 2. Conveying Modified Versions.

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

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

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

### 3. Object Code Incorporating Material from Library Header Files.

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

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

### 4. Combined Works.

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

- a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
- c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
- d) Do one of the following:
  - 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
  - 1) Use a suitable shared library mechanism for linking with the

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

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

## 5. Combined Libraries.

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

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

## 1.114 Bower 1.7.9

### 1.114.1 Available under license :

Copyright (c) 2016 Twitter and other contributors

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

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

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

## 1.115 bower-endpoint-parser 0.2.2

## 1.116 bower-json 0.4.0

## 1.117 bower-logger 0.2.2

# 1.118 bower-registry-client 1.0.0

## 1.118.1 Available under license :

MIT LICENSE

# 1.119 brace-expansion 1.1.0

## 1.119.1 Available under license :

# brace-expansion

[Brace expansion](https://www.gnu.org/software/bash/manual/html\_node/Brace-Expansion.html),  
as known from sh/bash, in JavaScript.

[![build status](https://secure.travis-ci.org/juliangruber/brace-expansion.svg)](http://travis-ci.org/juliangruber/brace-expansion)

[![testling badge](https://ci.testling.com/juliangruber/brace-expansion.png)](https://ci.testling.com/juliangruber/brace-expansion)

## Example

```
```js
var expand = require('brace-expansion');

expand('file-{a,b,c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('-v{,}')
// => ['-v', '-v', '-v']

expand('file{0..2}.jpg')
// => ['file0.jpg', 'file1.jpg', 'file2.jpg']

expand('file-{a..c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('file{2..0}.jpg')
// => ['file2.jpg', 'file1.jpg', 'file0.jpg']

expand('file{0..4..2}.jpg')
// => ['file0.jpg', 'file2.jpg', 'file4.jpg']

expand('file-{a..e..2}.jpg')
```



```
// => ['file-a.jpg', 'file-c.jpg', 'file-e.jpg']

expand('file{00..10..5}.jpg')
// => ['file00.jpg', 'file05.jpg', 'file10.jpg']

expand('{{A..C},{a..c}}')
// => ['A', 'B', 'C', 'a', 'b', 'c']

expand('ppp{,config,oe{,conf}}')
// => ['ppp', 'pppconfig', 'pppoe', 'pppoeconf']
...

```

API

```
```js
var expand = require('brace-expansion');
...

```

```
var expanded = expand(str)
```

Return an array of all possible and valid expansions of `str`. If none are found, `[str]` is returned.

Valid expansions are:

```
```js
/^(.*)(.+)?$/
// {a,b,...}
...

```

A comma separated list of options, like `{a,b}` or `{a,{b,c}}` or `{,a}`.

```
```js
/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/
// {x..y[.incr]}
...

```

A numeric sequence from `x` to `y` inclusive, with optional increment. If `x` or `y` start with a leading `0`, all the numbers will be padded to have equal length. Negative numbers and backwards iteration work too.

```
```js
/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/
// {x..y[.incr]}
...

```

An alphabetic sequence from `x` to `y` inclusive, with optional increment. `x` and `y` must be exactly one character, and if given, `incr` must be a

number.

For compatibility reasons, the string `\${` is not eligible for brace expansion.

Installation

With [npm](https://npmjs.org) do:

```
```bash
npm install brace-expansion
```
```

Contributors

- [Julian Gruber](https://github.com/juliangruber)
- [Isaac Z. Schlueter](https://github.com/isaacs)

License

(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

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

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

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

1.120 brace-expansion 1.1.2

1.120.1 Available under license :

brace-expansion

[Brace expansion](https://www.gnu.org/software/bash/manual/html_node/Brace-Expansion.html),
as known from sh/bash, in JavaScript.

[![build status](https://secure.travis-ci.org/juliangruber/brace-expansion.svg)](http://travis-ci.org/juliangruber/brace-expansion)

[![downloads](https://img.shields.io/npm/dm/brace-expansion.svg)](https://www.npmjs.org/package/brace-expansion)

[![testling badge](https://ci.testling.com/juliangruber/brace-expansion.png)](https://ci.testling.com/juliangruber/brace-expansion)

Example

```
```js
var expand = require('brace-expansion');

expand('file-{a,b,c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('-v{,,}')
// => ['-v', '-v', '-v']

expand('file{0..2}.jpg')
// => ['file0.jpg', 'file1.jpg', 'file2.jpg']

expand('file-{a..c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('file{2..0}.jpg')
// => ['file2.jpg', 'file1.jpg', 'file0.jpg']

expand('file{0..4..2}.jpg')
// => ['file0.jpg', 'file2.jpg', 'file4.jpg']

expand('file-{a..e..2}.jpg')
// => ['file-a.jpg', 'file-c.jpg', 'file-e.jpg']

expand('file{00..10..5}.jpg')
// => ['file00.jpg', 'file05.jpg', 'file10.jpg']

expand('{{A..C},{a..c}}')
// => ['A', 'B', 'C', 'a', 'b', 'c']

expand('ppp{,config,oe{,conf}}')
```

```
// => ['ppp', 'pppconfig', 'pppoe', 'pppoeconf']
```

```

```

```
API
```

```
```js
```

```
var expand = require('brace-expansion');
```

```
***
```

```
### var expanded = expand(str)
```

Return an array of all possible and valid expansions of `str`. If none are found, `[str]` is returned.

Valid expansions are:

```
```js
```

```
/^(.*,)+(.*?)?$/
```

```
// {a,b,...}
```

```

```

A comma separated list of options, like `{a,b}` or `{a,{b,c}}` or `{,a}`.

```
```js
```

```
/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/
```

```
// {x..y[.incr]}
```

```
***
```

A numeric sequence from `x` to `y` inclusive, with optional increment.

If `x` or `y` start with a leading `0`, all the numbers will be padded to have equal length. Negative numbers and backwards iteration work too.

```
```js
```

```
/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/
```

```
// {x..y[.incr]}
```

```

```

An alphabetic sequence from `x` to `y` inclusive, with optional increment.

`x` and `y` must be exactly one character, and if given, `incr` must be a number.

For compatibility reasons, the string `\${` is not eligible for brace expansion.

```
Installation
```

With [npm](https://npmjs.org) do:

```
```bash
```

```
npm install brace-expansion
```

```
````
```

```
Contributors
```

```
- [Julian Gruber](https://github.com/juliangruber)
```

```
- [Isaac Z. Schlueter](https://github.com/isaacs)
```

```
License
```

```
(MIT)
```

```
Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>
```

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

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

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

## 1.121 braces 1.8.2

### 1.121.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

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

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

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

## 1.122 bsh 2.0b4

### 1.122.1 Available under license :

```
/*
 *
 * This file is part of the BeanShell Java Scripting distribution.
 * Documentation and updates may be found at http://www.beanshell.org/
 *
 * Sun Public License Notice:
 *
 * The contents of this file are subject to the Sun Public License Version
 * 1.0 (the "License"); you may not use this file except in compliance with
 * the License. A copy of the License is available at http://www.sun.com
 *
 * The Original Code is BeanShell. The Initial Developer of the Original
 * Code is Pat Niemeyer. Portions created by Pat Niemeyer are Copyright
 * (C) 2000. All Rights Reserved.
 *
 * GNU Public License Notice:
 *
 * Alternatively, the contents of this file may be used under the terms of
 * the GNU Lesser General Public License (the "LGPL"), in which case the
 * provisions of LGPL are applicable instead of those above. If you wish to
 * allow use of your version of this file only under the terms of the LGPL
 * and not to allow others to use your version of this file under the SPL,
 * indicate your decision by deleting the provisions above and replace
 * them with the notice and other provisions required by the LGPL. If you
 * do not delete the provisions above, a recipient may use your version of
 * this file under either the SPL or the LGPL.
 *
 * Patrick Niemeyer (pat@pat.net)
 * Author of Learning Java, O'Reilly & Associates
 * http://www.pat.net/~pat/
 *
 */
```

SUN PUBLIC LICENSE Version 1.0

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof and corresponding documentation released with the source code.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code"../ means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code"../ means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated documentation, interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control"../ means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. Source Code License.

### 2.1 The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or



portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by:

i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

## 2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) notwithstanding Section 2.2(b) above, no patent license is

granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

#### 3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

#### 3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the

Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

### 3.4. Intellectual Property Matters.

#### (a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled `../LEGAL` which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

#### (b) Contributor APIs.

If Contributor's Modifications include an application programming interface ("`API`"..) and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

#### (c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License

.

### 3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership

rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

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

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to

statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

## 6. Versions of the License.

### 6.1. New Versions.

Sun Microsystems, Inc. ("Sun") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

### 6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Sun. No one other than Sun has the right to modify the terms applicable to Covered Code created under this License.

### 6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must: (a) rename Your license so that the phrases "Sun," "Sun Public License," or "SPL" ../ or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Sun Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

## 7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b)

and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

#### 9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48

C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation,"../ as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R.

12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

## 11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

## 12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

## 13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

Exhibit A -Sun Public License Notice.

The contents of this file are subject to the Sun Public License

Version 1.0 (the License); you may not use this file except in

compliance with the License. A copy of the License is available at

<http://www.sun.com/>



The Original Code is \_\_\_\_\_. The Initial Developer of the  
Original Code is \_\_\_\_\_. Portions created by \_\_\_\_\_ are Copyright  
(C)\_\_\_\_\_. All Rights Reserved.

Contributor(s): \_\_\_\_\_.

Alternatively, the contents of this file may be used under the terms  
of the \_\_\_\_\_ license (the "[\_\_\_\_\_] License?"), in which case the  
provisions of [\_\_\_\_\_] License are applicable instead of those above.

If you wish to allow use of your version of this file only under the  
terms of the [\_\_\_\_\_] License and not to allow others to use your  
version of this file under the SPL, indicate your decision by deleting  
the provisions above and replace them with the notice and other  
provisions required by the [\_\_\_\_\_] License. If you do not delete the  
provisions above, a recipient may use your version of this file under  
either the SPL or the [\_\_\_\_\_] License.

[NOTE: The text of this Exhibit A may differ slightly from the text of  
the notices in the Source Code files of the Original Code. You should  
use the text of this Exhibit A rather than the text found in the  
Original Code Source Code for Your Modifications.]

## 1.123 bson 4.1.0

## 1.123.1 Available under license :

Ruby BSON

Copyright (C) 2009-2013 MongoDB, Inc.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

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

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

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

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

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

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

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

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

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

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

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

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

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

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

Copyright (C) 2008-2013 MongoDB, Inc.

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

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

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

See the License for the specific language governing permissions and limitations under the License.

# 1.124 bson\_ext 1.5.1

## 1.124.1 Available under license :

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

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

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

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

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

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

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

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

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

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

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

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

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

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

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

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

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



6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright (C) 2008-2013 10gen, Inc.

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

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

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

## 1.125 buffers 0.1.1

### 1.125.1 Available under license :

NO LICENSE INFORMATION AVAILABLE. Possible Contact (in addition to <https://www.npmjs.com>):

## 1.126 builder 3.2.2

### 1.126.1 Available under license :

Copyright (c) 2003-2012 Jim Weirich ([jim.weirich@gmail.com](mailto:jim.weirich@gmail.com))

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

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

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

## 1.127 builtin-modules 1.1.0

### 1.127.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

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

## 1.128 builtin-status-codes 1.0.0

### 1.128.1 Available under license :

```
builtin-status-codes [![Build Status](https://travis-ci.org/bendrucker/builtin-status-codes.svg?branch=master)](https://travis-ci.org/bendrucker/builtin-status-codes)
```

> The map of HTTP status codes from the builtin http module. Exposes the latest directly from `http` in Node, with a zero-dependencies version for the browser.

```
Install
```

```

```

```
$ npm install --save builtin-status-codes
```

```

```

```
Usage
```

```
```js
```

```
var codes = require('builtin-status-codes')
```

```
codes[100]
```

```
//=> Continue
```

```
```
```

```
Build
```

To create a new browser build:

```
```sh
```

```
$ npm run build
```

...

License

MIT © [Ben Drucker](http://bendrucker.me)

1.129 bundler 1.11.2

1.129.1 Available under license :

Portions copyright (c) 2010 Andre Arko

Portions copyright (c) 2009 Engine Yard

MIT License

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

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

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

The MIT License (MIT)

Copyright (c) <%=Time.now.year%> <%=config[:author]%>

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.130 bytes 2.1.0

1.130.1 Available under license :

Bytes utility

Utility to parse a string bytes (ex: `1TB`) to bytes (`1099511627776`) and vice-versa.

Usage

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

bytes.format(number value, [options]): string|null

Format the given value in bytes into a string. If the value is negative, it is kept as such. If it is a float, it is rounded.

Arguments

| Name | Type | Description |
|---------|----------|--------------------|
| value | `number` | Value in bytes |
| options | `Object` | Conversion options |

Options

| Property | Type | Description |
|--------------------|----------------------|--|
| thousandsSeparator | `string`|`null` | Example of values: ``,``,`` and `.`... Default value to ``,``. |

Returns

| Name | Type | Description |
|---------|----------------------|---|
| results | `string`|`null` | Return null upon error. String value otherwise. |

Example

```
```js
```

```
bytes(1024);
// output: '1kB'
```

```
bytes(1000);
// output: '1000B'
```

```
bytes(1000, {thousandsSeparator: ','});
// output: '1 000B'
```

```
...
```

```
bytes.parse(string value): number|null
```

Parse the string value into an integer in bytes. If no unit is given, it is assumed the value is in bytes.

**\*\*Arguments\*\***

Name	Type	Description
value	string	String to parse.

**\*\*Returns\*\***

Name	Type	Description
results	number &#124;null	Return null upon error. Value in bytes otherwise.

**\*\*Example\*\***

```
```js
bytes('1kB');
// output: 1024
```

```
bytes('1024');
// output: 1024
...`
```

Installation

```
```bash
npm install bytes --save
component install visionmedia/bytes.js
...`
```

**## License**

[![npm](https://img.shields.io/npm/l/express.svg)](https://github.com/visionmedia/bytes.js/blob/master/LICENSE)

# 1.131 cabin 0.7.1

## 1.131.1 Available under license :

Copyright 2011 Jordan Sissel

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.132 cabin 0.8.1

## 1.132.1 Available under license :

Copyright 2011 Jordan Sissel

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.133 camelcase 2.0.1

## 1.133.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.134 camelcase-keys 2.0.0

### 1.134.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.135 cancancan 1.13.1

### 1.135.1 Available under license :

Copyright (c) 2011 Ryan Bates

MIT License



Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.136 cardinal 0.4.4

### 1.136.1 Available under license :

Copyright 2012 Thorsten Lorenz.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.137 caseless 0.9.0

## 1.137.1 Available under license :

```
{
 "name": "caseless",
 "version": "0.9.0",
 "description": "Caseless object set/get/has, very useful when working with HTTP headers.",
 "main": "index.js",
 "scripts": {
 "test": "node test.js"
 },
 "repository": {
 "type": "git",
 "url": "https://github.com/mikeal/caseless"
 },
 "keywords": [
 "headers",
 "http",
 "caseless"
],
 "test": "node test.js",
 "author": "Mikeal Rogers <mikeal.rogers@gmail.com>",
 "license": "BSD",
 "bugs": {
 "url": "https://github.com/mikeal/caseless/issues"
 },
 "devDependencies": {
 "tape": "^2.10.2"
 }
}
```

# 1.138 caseless 0.11.0

## 1.138.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the

Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.139 CFPropertyList 2.2.8

### 1.140 chainsaw 0.1.0

#### 1.140.1 Available under license :

```
{
 "name" : "chainsaw",
 "version" : "0.1.0",
```

```

"description" : "Build chainable fluent interfaces the easy way... with a freakin' chainsaw!",
"main" : "./index.js",
"repository" : {
 "type" : "git",
 "url" : "http://github.com/substack/node-chainsaw.git"
},
"dependencies" : {
 "traverse" : ">=0.3.0 <0.4"
},
"keywords" : [
 "chain",
 "fluent",
 "interface",
 "monad",
 "monadic"
],
"author" : "James Halliday <mail@substack.net> (http://substack.net)",
"license" : "MIT/X11",
"engine" : { "node" : ">=0.4.0" }
}

```

## 1.141 chalk 1.1.1

### 1.141.1 Available under license :

```

<h1 align="center">

</h1>

```

> Terminal string styling done right

[![Build Status](https://travis-ci.org/chalk/chalk.svg?branch=master)](https://travis-ci.org/chalk/chalk)  
 [![Coverage  
 Status](https://coveralls.io/repos/chalk/chalk/badge.svg?branch=master)](https://coveralls.io/r/chalk/chalk?branch=master)  
 [](https://www.youtube.com/watch?v=9auOCbH5Ns4)]

[colors.js](https://github.com/Marak/colors.js) used to be the most popular string styling module, but it has serious deficiencies like extending `String.prototype` which causes all kinds of [problems](https://github.com/yeoman/yo/issues/68). Although there are other ones, they either do too much or not enough.

**\*\*Chalk is a clean and focused alternative.\*\***



## ## Why

- Highly performant
- Doesn't extend `String.prototype`
- Expressive API
- Ability to nest styles
- Clean and focused
- Auto-detects color support
- Actively maintained
- [Used by ~4500 modules](https://www.npmjs.com/browse/depended/chalk) as of July 15, 2015

## ## Install

---

```
$ npm install --save chalk
```

---

## ## Usage

Chalk comes with an easy to use composable API where you just chain and nest the styles you want.

```
```js
```

```
var chalk = require('chalk');
```

```
// style a string
```

```
chalk.blue('Hello world!');
```

```
// combine styled and normal strings
```

```
chalk.blue('Hello') + 'World' + chalk.red('!');
```

```
// compose multiple styles using the chainable API
```

```
chalk.blue.bgRed.bold('Hello world!');
```

```
// pass in multiple arguments
```

```
chalk.blue('Hello', 'World!', 'Foo', 'bar', 'biz', 'baz');
```

```
// nest styles
```

```
chalk.red('Hello', chalk.underline.bgBlue('world') + '!');
```

```
// nest styles of the same type even (color, underline, background)
```

```
chalk.green(
  'I am a green line ' +
  chalk.blue.underline.bold('with a blue substring') +
  ' that becomes green again!'
);
```

```

Easily define your own themes.

```
```js
var chalk = require('chalk');
var error = chalk.bold.red;
console.log(error('Error!'));
```

```

Take advantage of `console.log` [string substitution]([http://nodejs.org/docs/latest/api/console.html#console\\_console\\_log\\_data](http://nodejs.org/docs/latest/api/console.html#console_console_log_data)).

```
```js
var name = 'Sindre';
console.log(chalk.green('Hello %s'), name);
//=> Hello Sindre
```

```

## ## API

```
chalk.`<style>[.<style>...](string, [string...])`
```

Example: `chalk.red.bold.underline('Hello', 'world');`

Chain [styles](#styles) and call the last one as a method with a string argument. Order doesn't matter, and later styles take precedent in case of a conflict. This simply means that `Chalk.red.yellow.green`` is equivalent to `Chalk.green``.

Multiple arguments will be separated by space.

```
chalk.enabled
```

Color support is automatically detected, but you can override it by setting the `enabled`` property. You should however only do this in your own code as it applies globally to all chalk consumers.

If you need to change this in a reusable module create a new instance:

```
```js
var ctx = new chalk.constructor({enabled: false});
```

```

```
chalk.supportsColor
```

Detect whether the terminal [supports color](https://github.com/chalk/supports-color). Used internally and handled for you, but exposed for convenience.

Can be overridden by the user with the flags `--color` and `--no-color`. For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

```
chalk.styles
```

Exposes the styles as [ANSI escape codes](https://github.com/chalk/ansi-styles).

Generally not useful, but you might need just the `.open` or `.close` escape code if you're mixing externally styled strings with your own.

```
```js
var chalk = require('chalk');

console.log(chalk.styles.red);
//=> {open: '\u001b[31m', close: '\u001b[39m'}

console.log(chalk.styles.red.open + 'Hello' + chalk.styles.red.close);
...

```

```
### chalk.hasColor(string)
```

Check whether a string [has color](https://github.com/chalk/has-ansi).

```
### chalk.stripColor(string)
```

[Strip color](https://github.com/chalk/strip-ansi) from a string.

Can be useful in combination with `.supportsColor` to strip color on externally styled text when it's not supported.

Example:

```
```js
var chalk = require('chalk');
var styledString = getText();

if (!chalk.supportsColor) {
 styledString = chalk.stripColor(styledString);
}
...

```

```
Styles
```

```
Modifiers
```



- `reset`
- `bold`
- `dim`
- `italic` \*(not widely supported)\*
- `underline`
- `inverse`
- `hidden`
- `strikethrough` \*(not widely supported)\*

### ### Colors

- `black`
- `red`
- `green`
- `yellow`
- `blue` \*(on Windows the bright version is used as normal blue is illegible)\*
- `magenta`
- `cyan`
- `white`
- `gray`

### ### Background colors

- `bgBlack`
- `bgRed`
- `bgGreen`
- `bgYellow`
- `bgBlue`
- `bgMagenta`
- `bgCyan`
- `bgWhite`

### ## 256-colors

Chalk does not support anything other than the base eight colors, which guarantees it will work on all terminals and systems. Some terminals, specifically `xterm` compliant ones, will support the full range of 8-bit colors. For this the lower level [ansi-256-colors](<https://github.com/jbnicolai/ansi-256-colors>) package can be used.

### ## Windows

If you're on Windows, do yourself a favor and use [cmdr](<http://blikier.github.io/cmdr/>) instead of `cmd.exe`.

### ## Related

- [chalk-cli](https://github.com/chalk/chalk-cli) - CLI for this module
- [ansi-styles](https://github.com/chalk/ansi-styles/) - ANSI escape codes for styling strings in the terminal
- [supports-color](https://github.com/chalk/supports-color/) - Detect whether a terminal supports color
- [strip-ansi](https://github.com/chalk/strip-ansi) - Strip ANSI escape codes
- [has-ansi](https://github.com/chalk/has-ansi) - Check if a string has ANSI escape codes
- [ansi-regex](https://github.com/chalk/ansi-regex) - Regular expression for matching ANSI escape codes
- [wrap-ansi](https://github.com/chalk/wrap-ansi) - Wordwrap a string with ANSI escape codes

## License

MIT © [Sindre Sorhus](http://sindresorhus.com)

## 1.142 childprocess 0.5.6

### 1.142.1 Available under license :

Copyright (c) 2010-2015 Jari Bakken

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.143 childprocess 0.5.9

## 1.144 chill 0.5.0

## 1.144.1 Available under license :

Chill is a set of Scala extensions for Kryo.  
Copyright 2012 Twitter, Inc.

Third Party Dependencies:

Kryo 2.17  
BSD 3-Clause License  
<http://code.google.com/p/kryo>

Commons-Codec 1.7  
Apache Public License 2.0  
<http://hadoop.apache.org>

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

# 1.145 chill-java 0.5.0

## 1.145.1 Available under license :

```
/*
```

```
Copyright 2013 Twitter, Inc.
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
*/
```

```
package com.twitter.chill.java;
```

```
import com.esotericsoftware.kryo.serializers.JavaSerializer;
```

```
import com.twitter.chill.IKryoRegistrar;
import com.twitter.chill.SingleRegistrar;
```

```
import java.text.SimpleDateFormat;
```

```
/** This class fails with the Fields serializer.
```

```
 * If it is a perf bottleneck, we could write a Kryo serializer
```

```
*/
```

```
public class SimpleDateFormatSerializer extends JavaSerializer {
 static public IKryoRegistrar registrar() {
 return new SingleRegistrar(SimpleDateFormat.class, new SimpleDateFormatSerializer());
 }
}
```

# 1.146 chill-protobuf 0.7.0

## 1.146.1 Available under license :

Chill is a set of Scala extensions for Kryo.

Copyright 2012 Twitter, Inc.

Third Party Dependencies:

Kryo 2.17  
BSD 3-Clause License  
<http://code.google.com/p/kryo>

Commons-Codec 1.7  
Apache Public License 2.0  
<http://hadoop.apache.org>

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object



form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.147 chmodr 1.0.2

## 1.147.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")  
All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.148 chokidar 1.1.0

### 1.148.1 Available under license :

```
Chokidar [![Mac/Linux Build
Status](https://img.shields.io/travis/paulmillr/chokidar/master.svg?label=Mac%20OSX%20%26%20Linux)](https://travis-ci.org/paulmillr/chokidar) [![Windows Build
status](https://img.shields.io/appveyor/ci/es128/chokidar/master.svg?label=Windows)](https://ci.appveyor.com/project/es128/chokidar/branch/master) [![Coverage
Status](https://coveralls.io/repos/paulmillr/chokidar/badge.svg)](https://coveralls.io/r/paulmillr/chokidar) [![Join the
chat at
https://gitter.im/paulmillr/chokidar](https://badges.gitter.im/Join%20Chat.svg)](https://gitter.im/paulmillr/chokidar?
utm_source=badge&utm_medium=badge&utm_campaign=pr-badge&utm_content=badge)
```

> A neat wrapper around node.js fs.watch / fs.watchFile / fsevents.

```
[![NPM](https://nodei.co/npm-dl/chokidar.png)](https://nodei.co/npm/chokidar/)
[![NPM](https://nodei.co/npm/chokidar.png?downloads=true&downloadRank=true&stars=true)](https://nodei.co/np
```

m/chokidar/)

#### [See what's new in v1.0](https://github.com/paulmillr/chokidar/blob/master/CHANGELOG.md#chokidar-100-7-april-2015)

## Why?

Node.js `fs.watch`:

- \* Doesn't report filenames on OS X.
- \* Doesn't report events at all when using editors like Sublime on OS X.
- \* Often reports events twice.
- \* Emits most changes as `rename`.
- \* Has [a lot of other issues](https://github.com/joyent/node/search?q=fs.watch&type=Issues)
- \* Does not provide an easy way to recursively watch file trees.

Node.js `fs.watchFile`:

- \* Almost as bad at event handling.
- \* Also does not provide any recursive watching.
- \* Results in high CPU utilization.

Chokidar resolves these problems.

Initially made for [brunch](http://brunch.io) (an ultra-swift web app build tool), it is now used in [gulp](https://github.com/gulpjs/gulp/), [karma](http://karma-runner.github.io), [PM2](https://github.com/Unitech/PM2), [browserify](http://browserify.org/), [webpack](http://webpack.github.io/), [BrowserSync](http://www.browsersync.io/), [Microsoft's Visual Studio Code](https://github.com/microsoft/vscode), and [many others](https://www.npmjs.org/browse/depended/chokidar/). It has proven itself in production environments.

## How?

Chokidar does still rely on the Node.js core `fs` module, but when using `fs.watch` and `fs.watchFile` for watching, it normalizes the events it receives, often checking for truth by getting file stats and/or dir contents.

On Mac OS X, chokidar by default uses a native extension exposing the Darwin `FSEvents` API. This provides very efficient recursive watching compared with implementations like `kqueue` available on most `*nix` platforms. Chokidar still does have to do some work to normalize the events received that way as well.

On other platforms, the `fs.watch`-based implementation is the default, which avoids polling and keeps CPU usage down. Be advised that chokidar will initiate watchers recursively for everything within scope of the paths that have been specified, so be judicious about not wasting system resources by watching much

more than needed.

## Getting started  
Install with npm:

```
npm install chokidar --save
```

Then `require` and use it in your code:

```
```javascript
var chokidar = require('chokidar');

// One-liner for current directory, ignores .dotfiles
chokidar.watch('.', { ignored: /[\/\\]\./ }).on('all', (event, path) => {
  console.log(event, path);
});
```

```javascript
// Example of a more typical implementation structure:

// Initialize watcher.
var watcher = chokidar.watch('file, dir, glob, or array', {
  ignored: /[\/\\]\./,
  persistent: true
});

// Something to use when events are received.
var log = console.log.bind(console);

// Add event listeners.
watcher
  .on('add', (path) => log('File', path, 'has been added'))
  .on('change', (path) => log('File', path, 'has been changed'))
  .on('unlink', (path) => log('File', path, 'has been removed'));

// More possible events.
watcher
  .on('addDir', (path) => log('Directory', path, 'has been added'))
  .on('unlinkDir', (path) => log('Directory', path, 'has been removed'))
  .on('error', (error) => log('Error happened', error))
  .on('ready', () => log('Initial scan complete. Ready for changes'))
  .on('raw', (event, path, details) => {
    log('Raw event info:', event, path, details);
  });

// 'add', 'addDir' and 'change' events also receive stat() results as second
// argument when available: http://nodejs.org/api/fs.html#fs_class_fs_stats
```

```

watcher.on('change', (path, stats) => {
  if (stats) console.log('File', path, 'changed size to', stats.size);
});

// Watch new files.
watcher.add('new-file');
watcher.add(['new-file-2', 'new-file-3', '**/other-file*']);

// Get list of actual paths being watched on the filesystem
var watchedPaths = watcher.getWatched();

// Un-watch some files.
watcher.unwatch('new-file*');

// Stop watching.
watcher.close();

// Full list of options. See below for descriptions. (do not use this example)
chokidar.watch('file', {
  persistent: true,

  ignored: '*.txt',
  ignoreInitial: false,
  followSymlinks: true,
  cwd: '.',

  usePolling: true,
  interval: 100,
  binaryInterval: 300,
  alwaysStat: false,
  depth: 99,
  awaitWriteFinish: {
    stabilityThreshold: 2000,
    pollInterval: 100
  },

  ignorePermissionErrors: false,
  atomic: true
});

```

API

```
`chokidar.watch(paths, [options])`
```

* `paths` (string or array of strings). Paths to files, dirs to be watched recursively, or glob patterns.

* ``options`` (object) Options object as defined below:

Persistence

* ``persistent`` (default: ``true``). Indicates whether the process should continue to run as long as files are being watched. If set to ``false`` when using ``fsevents`` to watch, no more events will be emitted after ``ready``, even if the process continues to run.

Path filtering

* ``ignored`` ([anymatch](https://github.com/es128/anymatch)-compatible definition)

Defines files/paths to be ignored. The whole relative or absolute path is tested, not just filename. If a function with two arguments is provided, it gets called twice per path - once with a single argument (the path), second time with two arguments (the path and the [fs.Stats](http://nodejs.org/api/fs.html#fs_class_fs_stats) object of that path).

* ``ignoreInitial`` (default: ``false``). If set to ``false`` then ``add`/`addDir`` events are also emitted for matching paths while instantiating the watching as chokidar discovers these file paths (before the ``ready`` event).

* ``followSymlinks`` (default: ``true``). When ``false``, only the symlinks themselves will be watched for changes instead of following the link references and bubbling events through the link's path.

* ``cwd`` (no default). The base directory from which watch ``paths`` are to be derived. Paths emitted with events will be relative to this.

Performance

* ``usePolling`` (default: ``false``).

Whether to use `fs.watchFile` (backed by polling), or `fs.watch`. If polling leads to high CPU utilization, consider setting this to ``false``. It is typically necessary to **set this to ``true`` to successfully watch files over a network**, and it may be necessary to successfully watch files in other non-standard situations. Setting to ``true`` explicitly on OS X overrides the ``useFsEvents`` default.

* ``_Polling-specific settings_`` (effective when ``usePolling: true``)

* ``interval`` (default: ``100``). Interval of file system polling.

* ``binaryInterval`` (default: ``300``). Interval of file system polling for binary files.

([see list of binary extensions](https://github.com/sindresorhus/binary-extensions/blob/master/binary-extensions.json))

* ``useFsEvents`` (default: ``true`` on OS X). Whether to use the ``fsevents`` watching interface if available. When set to ``true`` explicitly and ``fsevents`` is available this supercedes the ``usePolling`` setting. When set to ``false`` on OS X, ``usePolling: true`` becomes the default.

* ``alwaysStat`` (default: ``false``). If relying upon the [fs.Stats](http://nodejs.org/api/fs.html#fs_class_fs_stats)

object that may get passed with ``add``, ``addDir``, and ``change`` events, set this to ``true`` to ensure it is provided even in cases where it wasn't already available from the underlying watch events.

* ``depth`` (default: ``undefined``). If set, limits how many levels of subdirectories will be traversed.

* ``awaitWriteFinish`` (default: ``false``).

By default, the ``add`` event will fire when a file first appear on disk, before the entire file has been written. Furthermore, in some cases some ``change`` events will be emitted while the file is being written. In some cases, especially when watching for large files there will be a need to wait for the write operation to finish before responding to a file creation or modification. Setting ``awaitWriteFinish`` to ``true`` (or a truthy value) will poll file size, holding its ``add`` and ``change`` events until the size does not change for a configurable amount of time. The appropriate duration setting is heavily dependent on the OS and hardware. For accurate detection this parameter should be relatively high, making file watching much less responsive.

Use with caution.

* ``options.awaitWriteFinish`` can be set to an object in order to adjust timing params:*

* ``awaitWriteFinish.stabilityThreshold`` (default: 2000). Amount of time in milliseconds for a file size to remain constant before emitting its event.

* ``awaitWriteFinish.pollInterval`` (default: 100). File size polling interval.

Errors

* ``ignorePermissionErrors`` (default: ``false``). Indicates whether to watch files that don't have read permissions if possible. If watching fails due to ``EPERM`` or ``EACCES`` with this set to ``true``, the errors will be suppressed silently.

* ``atomic`` (default: ``true`` if ``useFsEvents`` and ``usePolling`` are ``false``).

Automatically filters out artifacts that occur when using editors that use "atomic writes" instead of writing directly to the source file.

Methods & Events

``chokidar.watch()`` produces an instance of ``FSWatcher``. Methods of ``FSWatcher``:

* ``add(path / paths)``: Add files, directories, or glob patterns for tracking.

Takes an array of strings or just one string.

* ``on(event, callback)``: Listen for an FS event.

Available events: ``add``, ``addDir``, ``change``, ``unlink``, ``unlinkDir``, ``ready``, ``raw``, ``error``.

Additionally ``all`` is available which gets emitted with the underlying event name and path for every event other than ``ready``, ``raw``, and ``error``.

* ``unwatch(path / paths)``: Stop watching files, directories, or glob patterns.

Takes an array of strings or just one string.

* ``close()``: Removes all listeners from watched files.

* ``getWatched()``: Returns an object representing all the paths on the file system being watched by this ``FSWatcher`` instance. The object's keys are all the directories (using absolute paths unless the ``cwd`` option was used), and the

values are arrays of the names of the items contained in each directory.

CLI

If you need a CLI interface for your file watching, check out [chokidar-cli](<https://github.com/kimmobrunfeldt/chokidar-cli>), allowing you to execute a command on each change, or get a stdio stream of change events.

Install Troubleshooting

- * `npm WARN optional dep failed, continuing fsevents@n.n.n`
- * This message is normal part of how `npm` handles optional dependencies and is not indicative of a problem. Even if accompanied by other related error messages, Chokidar should function properly.

- * `ERR! stack Error: Python executable "python" is v3.4.1, which is not supported by gyp.`
- * You should be able to resolve this by installing python 2.7 and running:
`npm config set python python2.7`

- * `gyp ERR! stack Error: not found: make`
- * On Mac, install the XCode command-line tools

License

The MIT license.

Copyright (c) 2012 - 2015 Paul Miller [paulmillr.com](<http://paulmillr.com>) & Elan Shanker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.149 clamp 0.6.5

1.149.1 Available under license :

Copyright (c) 2010 Mike Williams <mdub@dogbiscuit.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.150 ClassMate 1.0.0

1.150.1 Available under license :

This copy of Java ClassMate library is licensed under Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.151 cli-cursor 1.0.2

1.151.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.152 cli-width 1.1.0

1.152.1 Available under license :

Copyright (c) 2015, Ilya Radchenko <ilya@burstcreations.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.153 clone 0.2.0

1.153.1 Available under license :

Copyright 2011-2014 Paul Vorbach <paul@vorba.ch>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the Software), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.154 clone 1.0.2

1.154.1 Available under license :

Copyright 2011-2015 Paul Vorbach <paul@vorba.ch>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the Software), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.155 clone-stats 0.0.1

1.155.1 Available under license :

```
## The MIT License (MIT) ##
```

Copyright (c) 2014 Hugh Kennedy

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.156 code-point-at 1.0.0

1.156.1 Available under license :

```
# code-point-at [![Build Status](https://travis-ci.org/sindresorhus/code-point-at.svg?branch=master)](https://travis-ci.org/sindresorhus/code-point-at)
```

```
> ES2015 [ `String#codePointAt()` ](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/codePointAt) ponyfill
```

```
> Ponyfill: A polyfill that doesn't overwrite the native method
```

```
## Install
```

```
...
```

```
$ npm install --save code-point-at
```

```
...
```

```
## Usage
```

```

```js
var codePointAt = require('code-point-at');

codePointAt("");
//=> 128052

codePointAt('abc', 2);
//=> 99
```

## API

### codePointAt(input, [position])

## License

MIT © [Sindre Sorhus](http://sindresorhus.com)

```

1.157 collectd 5.5.0

1.157.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better

strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other

program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
collectd consists of a daemon and numerous plugins. The daemon is licensed under the "MIT License"; its source files are located at src/daemon/. The plugins are licenses individually, please check the top of the plugin's source file(s) to see which license applies. The majority of plugins is licensed either under the "MIT License" or the "GNU General Public License".

The "MIT License" and "GNU General Public License" follow. Other licenses, not included in this file, should be considered "as published by the Open Source Initiative (OSI)".

MIT License

=====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU General Public License (GPL)

=====

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.158 colorbrewer2 2.0

1.158.1 Available under license :

Apache-Style Software License for ColorBrewer software and ColorBrewer Color Schemes

Copyright (c) 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania State University.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions as source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes color specifications and designs developed by Cynthia Brewer (<http://colorbrewer.org/>)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
4. The name "ColorBrewer" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact Cynthia Brewer at cbrewer@psu.edu.
5. Products derived from this software may not be called "ColorBrewer", nor may "ColorBrewer" appear in their name, without prior written permission of Cynthia Brewer.

1.159 colorize 0.7.7

1.159.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., <<http://fsf.org/>>
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
{description}  
Copyright (C) {year} {fullname}
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
{signature of Ty Coon}, 1 April 1989
```


Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.160 colors 0.6.2

1.160.1 Available under license :

Copyright (c) 2010

Marak Squires

Alexis Sellier (cloudhead)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.161 com.cisco.xmp.osgi.cargo-core-api-util

1.0.0

1.161.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.162 combined-stream 1.0.5

1.162.1 Available under license :

Copyright (c) 2011 Debuggable Limited <felix@debuggable.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.163 combined-stream 0.0.7

1.163.1 Available under license :

Copyright (c) 2011 Debuggable Limited <felix@debuggable.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.164 commander 2.1.0

1.164.1 Available under license :

(The MIT License)

Copyright (c) 2011 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.165 commander 2.8.1

1.165.1 Available under license :

```
# Commander.js
```

```
[![Build Status](https://api.travis-ci.org/tj/commander.js.svg)](http://travis-ci.org/tj/commander.js)
[![NPM
Version](http://img.shields.io/npm/v/commander.svg?style=flat)](https://www.npmjs.org/package/commander)
[![NPM
Downloads](https://img.shields.io/npm/dm/commander.svg?style=flat)](https://www.npmjs.org/package/commander)
[![Join the chat at
https://gitter.im/tj/commander.js](https://badges.gitter.im/Join%20Chat.svg)](https://gitter.im/tj/commander.js?utm_source=badge&utm_medium=badge&utm_campaign=pr-badge&utm_content=badge)
```

The complete solution for [node.js](http://nodejs.org) command-line interfaces, inspired by Ruby's [commander](https://github.com/tj/commander).
[API documentation](http://tj.github.com/commander.js/)

```
## Installation
```

```
$ npm install commander
```

```
## Option parsing
```

Options with commander are defined with the `.option()` method, also serving as documentation for the options. The example below parses args and options from `process.argv`, leaving remaining args as the `program.args` array which were not consumed by options.

```
```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
```

```

.version('0.0.1')
.option('-p, --peppers', 'Add peppers')
.option('-P, --pineapple', 'Add pineapple')
.option('-b, --bbq-sauce', 'Add bbq sauce')
.option('-c, --cheese [type]', 'Add the specified type of cheese [marble]', 'marble')
.parse(process.argv);

console.log('you ordered a pizza with:');
if (program.peppers) console.log(' - peppers');
if (program.pineapple) console.log(' - pineapple');
if (program.bbqSauce) console.log(' - bbq');
console.log(' - %s cheese', program.cheese);
...

```

Short flags may be passed as a single arg, for example ``-abc`` is equivalent to ``-a -b -c``. Multi-word options such as `"--template-engine"` are camel-cased, becoming ``program.templateEngine`` etc.

### ## Coercion

```

```js
function range(val) {
  return val.split('.').map(Number);
}

function list(val) {
  return val.split(',');
}

function collect(val, memo) {
  memo.push(val);
  return memo;
}

function increaseVerbosity(v, total) {
  return total + 1;
}

program
.version('0.0.1')
.usage('[options] <file ...>')
.option('-i, --integer <n>', 'An integer argument', parseInt)
.option('-f, --float <n>', 'A float argument', parseFloat)
.option('-r, --range <a>.<b>', 'A range', range)
.option('-l, --list <items>', 'A list', list)
.option('-o, --optional [value]', 'An optional value')
.option('-c, --collect [value]', 'A repeatable value', collect, [])
.option('-v, --verbose', 'A value that can be increased', increaseVerbosity, 0)

```



```

.parse(process.argv);

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' collect: %j', program.collect);
console.log(' verbosity: %j', program.verbose);
console.log(' args: %j', program.args);
...

## Regular Expression
```js
program
.version('0.0.1')
.option('-s --size <size>', 'Pizza size', /^(large|medium|small)$/i, 'medium')
.option('-d --drink [drink]', 'Drink', /^(coke|pepsi|izze)$/i)
.parse(process.argv);

console.log(' size: %j', program.size);
console.log(' drink: %j', program.drink);
...

```

### ## Variadic arguments

The last argument of a command can be variadic, and only the last argument. To make an argument variadic you have to append `...` to the argument name. Here is an example:

```

```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
.version('0.0.1')
.command('rmdir <dir> [otherDirs...]')
.action(function (dir, otherDirs) {
  console.log('rmdir %s', dir);
  if (otherDirs) {
    otherDirs.forEach(function (oDir) {
      console.log('rmdir %s', oDir);
    });
  }
});

```

```
});  
}  
});
```

```
program.parse(process.argv);  
```
```

An `Array` is used for the value of a variadic argument. This applies to `program.args` as well as the argument passed to your action as demonstrated above.

```
Specify the argument syntax
```

```
```js
```

```
#!/usr/bin/env node
```

```
var program = require('.');
```

```
program
```

```
.version('0.0.1')
```

```
.arguments('<cmd> [env]')
```

```
.action(function (cmd, env) {
```

```
  cmdValue = cmd;
```

```
  envValue = env;
```

```
});
```

```
program.parse(process.argv);
```

```
if (typeof cmdValue === 'undefined') {
```

```
  console.error('no command given!');
```

```
  process.exit(1);
```

```
}
```

```
console.log('command:', cmdValue);
```

```
console.log('environment:', envValue || "no environment given");
```

```
```
```

```
Git-style sub-commands
```

```
```js
```

```
// file: ./examples/pm
```

```
var program = require('.');
```

```
program
```

```
.version('0.0.1')
```

```
.command('install [name]', 'install one or more packages')
```

```
.command('search [query]', 'search with optional query')
```

```
.command('list', 'list packages installed')
```

```
.parse(process.argv);
```

...

When `.command()` is invoked with a description argument, no `.action(callback)` should be called to handle sub-commands, otherwise there will be an error. This tells commander that you're going to use separate executables for sub-commands, much like `git(1)` and other popular tools.

The commander will try to search the executables in the directory of the entry script (like `./examples/pm`) with the name `program-command`, like `pm-install`, `pm-search`.

If the program is designed to be installed globally, make sure the executables have proper modes, like `755`.

```
### --harmony`
```

You can enable `--harmony` option in two ways:

* Use `#!/usr/bin/env node --harmony`` in the sub-commands scripts. Note some os version don't support this pattern.

* Use the `--harmony`` option when call the command, like `node --harmony examples/pm publish``. The `--harmony`` option will be preserved when spawning sub-command process.

```
## Automated --help
```

The help information is auto-generated based on the information commander already knows about your program, so the following `--help`` info is for free:

...

```
$ ./examples/pizza --help
```

```
Usage: pizza [options]
```

```
An application for pizzas ordering
```

```
Options:
```

```
-h, --help      output usage information
-V, --version   output the version number
-p, --peppers   Add peppers
-P, --pineapple Add pineapple
-b, --bbq       Add bbq sauce
-c, --cheese <type> Add the specified type of cheese [marble]
-C, --no-cheese You do not want any cheese
```

...

```
## Custom help
```

You can display arbitrary `-h, --help`` information by listening for `--help``. Commander will automatically exit once you are done so that the remainder of your program does not execute causing undesired behaviours, for example

in the following executable "stuff" will not output when
`--help` is used.

```
```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
 .version('0.0.1')
 .option('-f, --foo', 'enable some foo')
 .option('-b, --bar', 'enable some bar')
 .option('-B, --baz', 'enable some baz');

// must be before .parse() since
// node's emit() is immediate

program.on('--help', function(){
 console.log(' Examples:');
 console.log("");
 console.log(' $ custom-help --help');
 console.log(' $ custom-help -h');
 console.log("");
});

program.parse(process.argv);

console.log('stuff');
```
```

Yields the following help output when `node script-name.js -h` or `node script-name.js --help` are run:

```
```
```

Usage: custom-help [options]

Options:

```
-h, --help output usage information
-V, --version output the version number
-f, --foo enable some foo
-b, --bar enable some bar
-B, --baz enable some baz
```

Examples:

```
$ custom-help --help
```

```
$ custom-help -h
```

```
...
```

```
.outputHelp()
```

Output help information without exiting.

If you want to display help by default (e.g. if no command was provided), you can use something like:

```
```js
```

```
var program = require('commander');
```

```
program
```

```
.version('0.0.1')
```

```
.command('getstream [url]', 'get stream URL')
```

```
.parse(process.argv);
```

```
if (!process.argv.slice(2).length) {
```

```
  program.outputHelp();
```

```
}
```

```
```
```

```
.help()
```

Output help information and exit immediately.

```
Examples
```

```
```js
```

```
var program = require('commander');
```

```
program
```

```
.version('0.0.1')
```

```
.option('-C, --chdir <path>', 'change the working directory')
```

```
.option('-c, --config <path>', 'set config path. defaults to ./deploy.conf')
```

```
.option('-T, --no-tests', 'ignore test hook')
```

```
program
```

```
.command('setup [env]')
```

```
.description('run setup commands for all envs')
```

```
.option("-s, --setup_mode [mode]", "Which setup mode to use")
```

```
.action(function(env, options){
```

```
  var mode = options.setup_mode || "normal";
```

```
  env = env || 'all';
```

```

    console.log('setup for %s env(s) with %s mode', env, mode);
  });

program
  .command('exec <cmd>')
  .alias('ex')
  .description('execute the given remote cmd')
  .option("-e, --exec_mode <mode>", "Which exec mode to use")
  .action(function(cmd, options){
    console.log('exec "%s" using %s mode', cmd, options.exec_mode);
  }).on('--help', function() {
    console.log(' Examples:');
    console.log();
    console.log(' $ deploy exec sequential');
    console.log(' $ deploy exec async');
    console.log();
  });

```

```

program
  .command('*')
  .action(function(env){
    console.log('deploying "%s"', env);
  });

```

```

program.parse(process.argv);
...

```

More Demos can be found in the [examples](<https://github.com/tj/commander.js/tree/master/examples>) directory.

License

MIT

1.166 commons compress 1.0

1.166.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Compress
Copyright 2002-2009 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

Original BZip2 classes contributed by Keiron Liddle
<keiron@aftexsw.com>, Aftex Software to the Apache Ant project

Original Tar classes from contributors of the Apache Ant project

Original Zip classes from contributors of the Apache Ant project

Original CPIO classes contributed by Markus Kuss and the jRPM project
(rpm.sourceforge.net)

1.167 Commons IO 2.4

1.167.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons IO

Copyright 2002-2012 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

1.168 Commons Logging 1.1.1

1.168.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Logging

Copyright 2003-2007 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

<!--

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to You under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-->

1.169 Commons Logging 1.1.1

1.169.1 Available under license :

/*

- * Licensed to the Apache Software Foundation (ASF) under one
- * or more contributor license agreements. See the NOTICE file
- * distributed with this work for additional information

* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Logging

Copyright 2003-2007 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.170 Commons Logging 1.1.3

1.170.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Logging

Copyright 2003-2013 The Apache Software Foundation

This product includes software developed at

1.171 commons-beanutils 1.7

1.171.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.172 commons-beanutils-core 1.8.0

1.172.1 Available under license :

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.
Apache Commons BeanUtils
Copyright 2000-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.173 commons-cli 1.2

1.173.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons CLI

Copyright 2001-2009 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.174 commons-codec 1.6

1.174.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Codec

Copyright 2002-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains

test data from <http://aspell.sourceforge.net/test/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org). Verbatim copying and distribution of this entire article is permitted in any medium, provided this notice is preserved.

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

1.175 commons-compress 1.4.1

1.175.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Compress

Copyright 2002-2012 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.176 commons-configuration 1.6 1.6

1.176.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Commons Configuration

Copyright 2001-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.177 commons-lang 2.6

1.177.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Lang

Copyright 2001-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

1.178 commons-lang3 3.3.2

1.178.1 Available under license :

- /*
- * Licensed to the Apache Software Foundation (ASF) under one or more
- * contributor license agreements. See the NOTICE file distributed with
- * this work for additional information regarding copyright ownership.
- * The ASF licenses this file to You under the Apache License, Version 2.0
- * (the "License"); you may not use this file except in compliance with
- * the License. You may obtain a copy of the License at
- *
- * <http://www.apache.org/licenses/LICENSE-2.0>
- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Lang

Copyright 2001-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)

1.179 commons-math 2.2

1.179.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE COMMONS MATH DERIVATIVE WORKS:

The Apache commons-math library includes a number of subcomponents
whose implementation is derived from original sources written
in C or Fortran. License terms of the original sources
are reproduced below.

=====
For the lmdcr, lmpar and qrslv Fortran routine from minpack and translated in
the LevenbergMarquardtOptimizer class in package
org.apache.commons.math.optimization.general
Original source copyright and license statement:

Minpack Copyright Notice (1999) University of Chicago. All rights reserved

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.
2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.
3. The end-user documentation included with the
redistribution, if any, must include the following
acknowledgment:

"This product includes software developed by the
University of Chicago, as Operator of Argonne National

Laboratory.

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS" WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4) DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL BE CORRECTED.

5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES OF ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR LOSS OF DATA, FOR ANY REASON WHATSOEVER, WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE, EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES.

=====
Copyright and license statement for the odex Fortran routine developed by E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class in package org.apache.commons.math.ode.nonstiff:

Copyright (c) 2004, Ernst Hairer

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

Copyright and license statement for the original lapack fortran routines translated in EigenDecompositionImpl class in package org.apache.commons.math.linear:

Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

\$COPYRIGHT\$

Additional copyrights may follow

\$HEADERS\$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

Copyright and license statement for the original Mersenne twister C routines translated in MersenneTwister class in package org.apache.commons.math.random:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache Commons Math
Copyright 2001-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

=====

The BracketFinder (package org.apache.commons.math.optimization.univariate) and PowellOptimizer (package org.apache.commons.math.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>)
Copyright 2003-2009 SciPy Developers.

=====

The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.

=====

This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.
The LevenbergMarquardtOptimizer class in package org.apache.commons.math.optimization.general includes software translated from the lmdcr, lmpar and qrsolv Fortran routines from the Minpack package
Minpack Copyright Notice (1999) University of Chicago. All rights reserved

=====

The GraggBulirschStoerIntegrator class in package org.apache.commons.math.ode.nonstiff includes software translated from the odex Fortran routine developed by E. Hairer and G. Wanner.
Original source copyright:
Copyright (c) 2004, Ernst Hairer

=====

The EigenDecompositionImpl class in package org.apache.commons.math.linear includes software translated from some LAPACK Fortran routines. Original source copyright:
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

=====

The MersenneTwister class in package org.apache.commons.math.random includes software translated from the 2002-01-26 version of the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji Nishimura. Original source copyright:
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved

=====

The complete text of licenses and disclaimers associated with the the original sources enumerated above at the time of code translation are in the LICENSE.txt

file.

1.180 commons-math3 3.1.1

1.180.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

APACHE COMMONS MATH DERIVATIVE WORKS:

The Apache commons-math library includes a number of subcomponents whose implementation is derived from original sources written in C or Fortran. License terms of the original sources are reproduced below.

=====
For the lmdcr, lmpar and qrsvlv Fortran routine from minpack and translated in the LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general
Original source copyright and license statement:

Minpack Copyright Notice (1999) University of Chicago. All rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any, must include the following

acknowledgment:

"This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS" WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4) DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL BE CORRECTED.

5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES OF ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR LOSS OF DATA, FOR ANY REASON WHATSOEVER, WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE, EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES.

=====
Copyright and license statement for the odex Fortran routine developed by E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class in package org.apache.commons.math3.ode.nonstiff:

Copyright (c) 2004, Ernst Hairer

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

Copyright and license statement for the original lapack fortran routines translated in EigenDecompositionImpl class in package org.apache.commons.math3.linear:

Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

\$COPYRIGHT\$

Additional copyrights may follow

\$HEADERS\$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

Copyright and license statement for the original Mersenne twister C routines translated in MersenneTwister class in package org.apache.commons.math3.random:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" is an adapted version of "OrekitMessagesTest" test class for the Orekit library. The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator" has been imported from the Orekit space flight dynamics library.

The Orekit library is described at:

<https://www.orekit.org/forge/projects/orekit>

The original files are distributed under the terms of the Apache 2 license

which is: Copyright 2010 CS Communication & Systems

Apache Commons Math

Copyright 2001-2012 The Apache Software Foundation

This product includes software developed by

The Apache Software Foundation (<http://www.apache.org/>).

=====
The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>) Copyright © 2003-2009 SciPy Developers.

=====
The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.

=====
This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.

The LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general includes software translated from the lmdr, lmpar and qrsolv Fortran routines from the Minpack package. Minpack Copyright Notice (1999) University of Chicago. All rights reserved

=====
The GraggBulirschStoerIntegrator class in package org.apache.commons.math3.ode.nonstiff includes software translated from the odex Fortran routine developed by E. Hairer and G. Wanner. Original source copyright: Copyright (c) 2004, Ernst Hairer

The EigenDecompositionImpl class in package org.apache.commons.math3.linear includes software translated from some LAPACK Fortran routines. Original source copyright: Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

The MersenneTwister class in package org.apache.commons.math3.random includes software translated from the 2002-01-26 version of the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji Nishimura. Original source copyright: Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved

The LocalizedFormatsTest class in the unit tests is an adapted version of the OrekitMessagesTest class from the orekit library distributed under the terms of the Apache 2 licence. Original source copyright: Copyright 2010 CS SystÃ(mes d'Information

The HermiteInterpolator class and its corresponding test have been imported from the orekit library distributed under the terms of the Apache 2 licence. Original source copyright: Copyright 2010-2012 CS SystÃ(mes d'Information

The creation of the package "o.a.c.m.analysis.integration.gauss" was inspired by an original code donated by SÃ©bastien Brisard.

The complete text of licenses and disclaimers associated with the the original sources enumerated above at the time of code translation are in the LICENSE.txt file.

1.181 commons-net 2.2

1.181.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.
Apache Commons Net
Copyright 2001-2010 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.182 commons-pool 1.6

1.182.1 Available under license :

Apache License

Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Pool

Copyright 2001-2012 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

1.183 commons-pool2 2.2

1.183.1 Available under license :

Apache Commons Pool
Copyright 2001-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

The LinkedBlockingDeque implementation is based on an implementation written by
Doug Lea with assistance from members of JCP JSR-166 Expert Group and released
to the public domain, as explained at
<http://creativecommons.org/licenses/publicdomain>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.184 compress-lzf 1.0.0

1.184.1 Available under license :

This copy of Compress-LZF library is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflat) codec.

Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE file.

Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).

It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

- * Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- * Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

1.185 compressible 2.0.5

1.185.1 Available under license :

(The MIT License)

Copyright (c) 2013 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Jeremiah Senkpiel <fishrock123@rocketmail.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.186 concat-map 0.0.1

1.186.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.187 config-1.2.1 1.2.1

1.187.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.188 config-chain 1.1.9

1.188.1 Available under license :

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.189 config-magic 0.9

1.190 configstore 0.3.2

1.191 connect-timeout 1.6.2

1.191.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.192 content-type 1.0.1

1.192.1 Available under license :

(The MIT License)

Copyright (c) 2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.193 cookie 0.1.3

1.193.1 Available under license :

(The MIT License)

Copyright (c) 2012-2014 Roman Shtylman <shtylman@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.194 cookie-parser 1.3.5

1.194.1 Available under license :

(The MIT License)

Copyright (c) 2014 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.195 cookie-signature 1.0.6

1.195.1 Available under license :

cookie-signature

Sign and unsign cookies.

Example

```
```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGIikCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```
```

License

(The MIT License)

Copyright (c) 2012 LearnBoost <tj@learnboost.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.196 core-util-is 1.0.1

1.196.1 Available under license :

```
// Copyright Joyent, Inc. and other Node contributors.
//
// Permission is hereby granted, free of charge, to any person obtaining a
// copy of this software and associated documentation files (the
// "Software"), to deal in the Software without restriction, including
// without limitation the rights to use, copy, modify, merge, publish,
```

```
// distribute, sublicense, and/or sell copies of the Software, and to permit
// persons to whom the Software is furnished to do so, subject to the
// following conditions:
//
// The above copyright notice and this permission notice shall be included
// in all copies or substantial portions of the Software.
//
// THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
// USE OR OTHER DEALINGS IN THE SOFTWARE.
```

1.197 corefines 1.9.0

1.197.1 Available under license :

The MIT License

Copyright 2015-2016 Jakub Jirutka <jakub@jirutka.cz>.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.198 crack 0.4.3

1.198.1 Available under license :

Copyright (c) 2009 John Nunemaker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.199 crc 3.3.0

1.199.1 Available under license :

The MIT License (MIT)

Copyright 2014 Alex Gorbachev

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2006-2013, Thomas Pircher <tehpeh@gmx.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.200 cryptiles 0.2.2

1.200.1 Available under license :

Copyright (c) 2012-2013, Eran Hammer.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Eran Hammer nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ERAN HAMMER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS

SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.201 cryptiles 2.0.5

1.201.1 Available under license :

Copyright (c) 2014, Eran Hammer and other contributors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

* * *

The complete list of contributors can be found at: <https://github.com/hueniverse/cryptiles/graphs/contributors>

1.202 csrf 3.0.0

1.202.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong me@jongleberry.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.203 csurf 1.8.3

1.203.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.204 ctype 0.5.3

1.204.1 Available under license :

The following license applies to all files unless the file is specified below.
Each file specified below has its license information embedded in it:

tools/jsstyle

Copyright 2011, Robert Mustacchi. All rights reserved.

Copyright 2011, Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.205 Curator Client 2.4.0

1.205.1 Available under license :

Curator Client

Copyright 2011-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.206 curator-framework-2.4.0 2.4.0

1.206.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

Curator Framework

Copyright 2011-2014 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

1.207 curator-recipes-2.4.0 2.4.0

1.207.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Curator Recipes

Copyright 2011-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

1.208 cvs 1.11.23 :11.6.amzn1

1.208.1 Available under license :

[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at <http://www.gnu.org/>]

GNU GENERAL PUBLIC LICENSE

Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at <http://www.gnu.org/>]

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.209 D3 3.4.8

1.209.1 Available under license :

Copyright (c) 2011, Jason Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * The name Jason Davies may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JASON DAVIES BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to GeographicLib, versions 1.12 and later.

Copyright (c) 2008-2012, Charles Karney

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

TERMS OF USE - EASING EQUATIONS

Open source under the BSD License.

Copyright 2001 Robert Penner

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the author nor the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR

ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2010, SimpleGeo and Stamen Design

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of SimpleGeo nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL SIMPLEGEO BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 2010-2013 Raymond Hill

<https://github.com/gorhill/Javascript-Voronoi>

Licensed under The MIT License

http://en.wikipedia.org/wiki/MIT_License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010, Stanford Visualization Group
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Stanford University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache-Style Software License for ColorBrewer software and ColorBrewer Color Schemes

Copyright (c) 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania State University.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions as source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes color specifications and designs developed by Cynthia Brewer (<http://colorbrewer.org/>)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
4. The name "ColorBrewer" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact Cynthia Brewer at cbrewer@psu.edu.
5. Products derived from this software may not be called "ColorBrewer", nor may "ColorBrewer" appear in their name, without prior written permission of Cynthia Brewer.

Copyright (c) 2010-2014, Michael Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY

OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.210 daemons 1.1.9

1.210.1 Available under license :

Copyright (c) 2005-2012 Thomas Uehlinger

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.211 daemons 1.2.3

1.212 daemons/setup.rb 1.1.9

1.212.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be

introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY

KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.213 dalli 2.7.6

1.213.1 Available under license :

Copyright (c) Peter M. Goldstein, Mike Perham

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.214 dateformat 1.0.12

1.214.1 Available under license :

(c) 2007-2009 Steven Levithan <stevenlevithan.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.215 db4-cxx 4.7.25 :17.el6

1.215.1 Available under license :

```
/*_  
* $Id: LICENSE,v 12.9 2008/02/07 17:12:17 mark Exp $  
*/
```

The following is the license that applies to this copy of the Berkeley DB software. For a license to use the Berkeley DB software under conditions other than those described here, or to purchase support for this software, please contact Oracle at berkeleydb-info_us@oracle.com.

```
-----  
/*  
* Copyright (c) 1990,2008 Oracle. All rights reserved.  
*  
* Redistribution and use in source and binary forms, with or without  
* modification, are permitted provided that the following conditions  
* are met:  
* 1. Redistributions of source code must retain the above copyright  
* notice, this list of conditions and the following disclaimer.  
* 2. Redistributions in binary form must reproduce the above copyright  
* notice, this list of conditions and the following disclaimer in the  
* documentation and/or other materials provided with the distribution.  
* 3. Redistributions in any form must be accompanied by information on  
* how to obtain complete source code for the DB software and any  
* accompanying software that uses the DB software. The source code  
* must either be included in the distribution or be available for no  
* more than the cost of distribution plus a nominal fee, and must be  
* freely redistributable under reasonable conditions. For an
```

* executable file, complete source code means the source code for all
* modules it contains. It does not include source code for modules or
* files that typically accompany the major components of the operating
* system on which the executable file runs.

*

* THIS SOFTWARE IS PROVIDED BY ORACLE "AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
* NON-INFRINGEMENT, ARE DISCLAIMED. IN NO EVENT SHALL ORACLE BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
* IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

/*

* Copyright (c) 1990, 1993, 1994, 1995

* The Regents of the University of California. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:

* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.

* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

*/

/*

* Copyright (c) 1995, 1996

* The President and Fellows of Harvard University. All rights reserved.

*
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the University nor the names of its contributors
 * may be used to endorse or promote products derived from this software
 * without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS "AS IS" AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.

*/

/***

* ASM: a very small and fast Java bytecode manipulation framework
 * Copyright (c) 2000-2005 INRIA, France Telecom
 * All rights reserved.

*

* Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the copyright holders nor the names of its
 * contributors may be used to endorse or promote products derived from
 * this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/

Copyright (c) 2005, 2006, Theo Schlossnagle
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name OmniTI nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.216 dbus 1.2.24

1.216.1 Available under license :

D-Bus is licensed to you under your choice of the Academic Free License version 2.1, or the GNU General Public License version 2. Both licenses are included here. Some of the standalone binaries are under the GPL only; in particular, but not limited to, tools/dbus-cleanup-sockets.c and test/decode-gcov.c. Each source code file is marked with the proper copyright information - if you find a file that isn't marked please bring it to our attention.

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose

owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license to do the following:

- a) to reproduce the Original Work in copies;
- b) to prepare derivative works ("Derivative Works") based upon the Original Work;
- c) to distribute copies of the Original Work and Derivative Works to the public;
- d) to perform the Original Work publicly; and
- e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of

Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately preceding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another

written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. § 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with

you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--

END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses.

* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute

without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice, but the BSD, MIT and UoI/NCSA licenses do not.

--

START OF GNU GENERAL PUBLIC LICENSE

--

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

```
/* -*- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; -*- */
```

```
/* dbus-hash.c Generic hash table utility (internal to D-Bus implementation)
```

```
*
```

```
* Copyright (C) 2002 Red Hat, Inc.
```

```
* Copyright (c) 1991-1993 The Regents of the University of California.
```

```
* Copyright (c) 1994 Sun Microsystems, Inc.
```

```
*
```

```
* Hash table implementation based on generic/tclHash.c from the Tcl
```

```
* source code. The original Tcl license applies to portions of the
```

```
* code from tclHash.c; the Tcl license follows this standard D-Bus
```

```
* license information.
```

```
*
```

```
* Licensed under the Academic Free License version 2.1
```

```
*
```

```
* This program is free software; you can redistribute it and/or modify
```

```
* it under the terms of the GNU General Public License as published by
```

```
* the Free Software Foundation; either version 2 of the License, or
```

```
* (at your option) any later version.
```

```
*
```

```
* This program is distributed in the hope that it will be useful,
```

```
* but WITHOUT ANY WARRANTY; without even the implied warranty of
```

```
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
```

```
* GNU General Public License for more details.
```

```
*
```

```
* You should have received a copy of the GNU General Public License
```

```
* along with this program; if not, write to the Free Software
```

```
* Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
```

```
*
```

```
*/
```

```
/*
```

```
* The following copyright applies to code from the Tcl distribution.
```

```
*
```

```
* Copyright (c) 1991-1993 The Regents of the University of California.
```

```
* Copyright (c) 1994 Sun Microsystems, Inc.
```

```
*
```

```
* This software is copyrighted by the Regents of the University of
```


* California, Sun Microsystems, Inc., Scriptics Corporation, and
 * other parties. The following terms apply to all files associated
 * with the software unless explicitly disclaimed in individual files.
 *
 * The authors hereby grant permission to use, copy, modify,
 * distribute, and license this software and its documentation for any
 * purpose, provided that existing copyright notices are retained in
 * all copies and that this notice is included verbatim in any
 * distributions. No written agreement, license, or royalty fee is
 * required for any of the authorized uses. Modifications to this
 * software may be copyrighted by their authors and need not follow
 * the licensing terms described here, provided that the new terms are
 * clearly indicated on the first page of each file where they apply.
 *
 * IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY
 * PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
 * DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION,
 * OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 *
 * THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
 * INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND
 * NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS,
 * AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE
 * MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.
 *
 * GOVERNMENT USE: If you are acquiring this software on behalf of the
 * U.S. government, the Government shall have only "Restricted Rights"
 * in the software and related documentation as defined in the Federal
 * Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
 * are acquiring the software on behalf of the Department of Defense,
 * the software shall be classified as "Commercial Computer Software"
 * and the Government shall have only "Restricted Rights" as defined
 * in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the
 * foregoing, the authors grant the U.S. Government and others acting
 * in its behalf permission to use and distribute the software in
 * accordance with the terms specified in this license.
 */

1.217 dbus-glib 0.86

1.217.1 Available under license :

?The D-Bus glib bindings are licensed to you under your choice of the Academic Free License version 2.1, or the GNU General Public License version 2. Both licenses are included here. Some of the standalone binaries are under the GPL only; in particular, but not limited to, tests/decode-gcov.c. Each source code

file is marked with the proper copyright information.

The Academic Free License

v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license to do the following:

- a) to reproduce the Original Work in copies;
- b) to prepare derivative works ("Derivative Works") based upon the Original Work;
- c) to distribute copies of the Original Work and Derivative Works to the public;
- d) to perform the Original Work publicly; and
- e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their

trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately preceding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such

limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. ' 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License

is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--

END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses.

* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the

BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice, but the BSD, MIT and UoI/NCSA licenses do not.

--

START OF GNU GENERAL PUBLIC LICENSE

--

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.218 dcjs 1.6.0

1.218.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.219 debug 0.7.4

1.219.1 Available under license :

```
# debug
```

tiny node.js debugging utility modelled after node core's debugging technique.

```
## Installation
```

```
---
```

```
$ npm install debug
```

```
---
```

Usage

With `debug`` you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated `console.error``, so all of the `console`` format string goodies you're used to work fine. A unique color is selected per-function for visibility.

Example `_app.js``:

```
```js
var debug = require('debug')('http')
, http = require('http')
, name = 'My App';

// fake app

debug('booting %s', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

require('./worker');
```
```

Example `_worker.js``:

```
```js
var debug = require('debug')('worker');

setInterval(function(){
 debug('doing some work');
}, 1000);
```
```

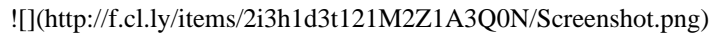
The `__DEBUG__` environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

```
![debug http and worker](http://f.cl.ly/items/18471z1H402O24072r1J/Screenshot.png)
```

```
![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)
```

Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.



When stderr is not a TTY, `Date#toUTCString()` is used, making it more useful for logging the debug information as shown below:

`_(NOTE: Debug now uses stderr instead of stdout, so the correct shell command for this example is actually `DEBUG=* node example/worker 2> out &`)_`



Conventions

If you're using this in one or more of your libraries, you should use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you should prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser".

Wildcards

The "*" character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect.compress,connect:session``, you may simply do `DEBUG=connect:*``, or to run everything using this module simply use `DEBUG=*``.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=* -connect:*`` would include all debuggers except those starting with "connect:".

Browser support

Debug works in the browser as well, currently persisted by `localStorage``. For example if you have `worker:a`` and `worker:b`` as shown below, and wish to debug both type `debug.enable('worker:*`)` in the console and refresh the page, this will remain until you disable with `debug.disable(``.

```
```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 a('doing some work');
}, 1200);
```

...

## ## License

(The MIT License)

Copyright (c) 2011 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.220 debug 2.2.0

## 1.220.1 Available under license :

# debug

tiny node.js debugging utility modelled after node core's debugging technique.

## Installation

```
```bash
$ npm install debug
```
```

## Usage

With `debug` you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated `console.error`, so all of the `console` format string goodies you're used to work fine. A unique color is selected per-function for visibility.

Example `_app.js`:

```

```js
var debug = require('debug')('http')
, http = require('http')
, name = 'My App';

// fake app

debug('booting %s', name);

http.createServer(function(req, res){
  debug(req.method + ' ' + req.url);
  res.end('hello\n');
}).listen(3000, function(){
  debug('listening');
});

// fake worker of some kind

require('./worker');
```

```

Example `_worker.js`:

```

```js
var debug = require('debug')('worker');

setInterval(function(){
  debug('doing some work');
}, 1000);
```

```

The `__DEBUG__` environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

```
![debug http and worker](http://f.cl.ly/items/18471z1H402O24072r1J/Screenshot.png)
```

```
![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)
```

#### Windows note

On Windows the environment variable is set using the ``set`` command.

```

```cmd
set DEBUG=*,-not_this
```

```

Then, run the program to be debugged as usual.

## ## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.



When stdout is not a TTY, `Date#toUTCString()` is used, making it more useful for logging the debug information as shown below:



## ## Conventions

If you're using this in one or more of your libraries, you should use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you should prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser".

## ## Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=*,-connect:*` would include all debuggers except those starting with "connect:".

## ## Browser support

Debug works in the browser as well, currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. Somewhere in the code on your page, include:

```
```js
window.myDebug = require("debug");
```
```

("debug" is a global object in the browser so we give this object a different name.) When your page is open in the browser, type the following in the console:

```
```js
myDebug.enable("worker:*")
```
```

Refresh the page. Debug output will continue to be sent to the console until it is disabled by typing

``myDebug.disable()`` in the console.

```
``js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
``
```

#### #### Web Inspector Colors

Colors are also enabled on "Web Inspectors" that understand the ``%c`` formatting option. These are WebKit web inspectors, Firefox ([since version 31](<https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/>)) and the Firebug plugin for Firefox (any version).

Colored output looks something like:



#### ### stderr vs stdout

You can set an alternative logging method per-namespace by overriding the ``log`` method on a per-namespace or globally:

Example `_stdout.js`:

```
``js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
```

```
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
...

```

### Save debug output to a file

You can save all debug statements to a file by piping them.

Example:

```
```bash
$ DEBUG_FD=3 node your-app.js 3> whatever.log
...

```

Authors

- TJ Holowaychuk
- Nathan Rajlich

License

(The MIT License)

Copyright (c) 2014 TJ Holowaychuk <tj@vision-media.ca>;

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.221 decompress-zip 0.1.0

1.221.1 Available under license :

Copyright (c) 2016 Twitter and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.222 deep-equal 1.0.1

1.222.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.223 deep-extend 0.2.11

1.223.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Viacheslav Lotsmanov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.224 defaults 1.0.3

1.224.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Elijah Insua

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.225 delayed-stream 1.0.0

1.225.1 Available under license :

Copyright (c) 2011 Debuggable Limited <felix@debuggable.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.226 delayed-stream 0.0.5

1.226.1 Available under license :

Copyright (c) 2011 Debuggable Limited <felix@debuggable.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

1.227 delegates 0.1.0

1.227.1 Available under license :

```
# delegates
```

Node method and accessor delegation utility.

```
## Installation
```

```
...
```

```
$ npm install delegates
```

```
...
```

```
## Example
```

```
```js
```

```
var delegate = require('delegates');
```

```
...
```

```
delegate(proto, 'request')
 .method('acceptsLanguages')
 .method('acceptsEncodings')
 .method('acceptsCharsets')
 .method('accepts')
 .method('is')
 .access('querystring')
 .access('idempotent')
 .access('socket')
 .access('length')
 .access('query')
 .access('search')
 .access('status')
 .access('method')
 .access('path')
 .access('body')
 .access('host')
 .access('url')
 .getter('subdomains')
 .getter('protocol')
 .getter('header')
 .getter('stale')
 .getter('fresh')
```

```
.getter('secure')
.getter('ips')
.getter('ip')
````
```

```
# API
```

```
## Delegate(proto, prop)
```

Creates a delegator instance used to configure using the `prop` on the given `proto` object. (which is usually a prototype)

```
## Delegate#method(name)
```

Allows the given method `name` to be accessed on the host.

```
## Delegate#getter(name)
```

Creates a "getter" for the property with the given `name` on the delegated object.

```
## Delegate#setter(name)
```

Creates a "setter" for the property with the given `name` on the delegated object.

```
## Delegate#access(name)
```

Creates an "accessor" (ie: both getter *and* setter) for the property with the given `name` on the delegated object.

```
## Delegate#fluent(name)
```

A unique type of "accessor" that works for a "fluent" API. When called as a getter, the method returns the expected value. However, if the method is called with a value, it will return itself so it can be chained. For example:

```
```js
delegate(proto, 'request')
.fluent('query')
```

```
// getter
var q = request.query();
```

```
// setter (chainable)
```

```
request
.query({ a: 1 })
.query({ b: 2 });
```

...

# License

MIT

## 1.228 depd 1.0.1

### 1.228.1 Available under license :

(The MIT License)

Copyright (c) 2014 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.229 deprecated 0.0.1

### 1.229.1 Available under license :

Copyright (c) 2014 Fractal <contact@wearefractal.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.230 destroy 1.0.3

### 1.230.1 Available under license :

# Destroy

```
[![NPM version][npm-image]][npm-url]
[![Build status][travis-image]][travis-url]
[![Test coverage][coveralls-image]][coveralls-url]
[![Dependency Status][david-image]][david-url]
[![License][license-image]][license-url]
[![Downloads][downloads-image]][downloads-url]
[![Gittip][gittip-image]][gittip-url]
```

Destroy a stream.

## API

```
```js
var destroy = require('destroy')

var fs = require('fs')
var stream = fs.createReadStream('package.json')
destroy(stream)
```
```

```
[npm-image]: https://img.shields.io/npm/v/destroy.svg?style=flat-square
[npm-url]: https://npmjs.org/package/destroy
[github-tag]: http://img.shields.io/github/tag/stream-utils/destroy.svg?style=flat-square
[github-url]: https://github.com/stream-utils/destroy/tags
[travis-image]: https://img.shields.io/travis/stream-utils/destroy.svg?style=flat-square
[travis-url]: https://travis-ci.org/stream-utils/destroy
[coveralls-image]: https://img.shields.io/coveralls/stream-utils/destroy.svg?style=flat-square
[coveralls-url]: https://coveralls.io/r/stream-utils/destroy?branch=master
[david-image]: http://img.shields.io/david/stream-utils/destroy.svg?style=flat-square
[david-url]: https://david-dm.org/stream-utils/destroy
[license-image]: http://img.shields.io/npm/l/destroy.svg?style=flat-square
[license-url]: LICENSE.md
```

[downloads-image]: <http://img.shields.io/npm/dm/destroy.svg?style=flat-square>

[downloads-url]: <https://npmjs.org/package/destroy>

[gittip-image]: <https://img.shields.io/gittip/jonathanong.svg?style=flat-square>

[gittip-url]: <https://www.gittip.com/jonathanong/>

# 1.231 device-mapper-multipath-libs 0.4.9 :56.el6

## 1.231.1 Available under license :

### GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.  
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some  
specially designated Free Software Foundation software, and to any  
other libraries whose authors decide to use it. You can use it for  
your libraries, too.

When we speak of free software, we are referring to freedom, not  
price. Our General Public Licenses are designed to make sure that you  
have the freedom to distribute copies of free software (and charge for  
this service if you wish), that you receive source code or can get it  
if you want it, that you can change the software or use pieces of it  
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid  
anyone to deny you these rights or to ask you to surrender the rights.  
These restrictions translate to certain responsibilities for you if  
you distribute copies of the library, or if you modify it.



For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the

users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

## GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY



KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,

MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.232 device-two-factor 2.0.1

### 1.232.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Tinfoil Security, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.233 devise 3.5.2

# 1.234 devise-token-authenticatable 0.4.7

## 1.234.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Sebastian Oelke

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.235 devise\_invalidatable 0.0.2

## 1.236 dhcp 4.1.1

### 1.236.1 Available under license :

```
Copyright (c) 2004-2010 by Internet Systems Consortium, Inc. ("ISC")
Copyright (c) 1995-2003 by Internet Software Consortium
#
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
#
THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
```

```
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
#
Internet Systems Consortium, Inc.
950 Charter Street
Redwood City, CA 94063
<info@isc.org>
https://www.isc.org/
```

## 1.237 dhcp-common 4.1.1 :31.P1.el6

### 1.237.1 Available under license :

```
Copyright (c) 2004-2010 by Internet Systems Consortium, Inc. ("ISC")
Copyright (c) 1995-2003 by Internet Software Consortium
#
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
#
THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
#
Internet Systems Consortium, Inc.
950 Charter Street
Redwood City, CA 94063
<info@isc.org>
https://www.isc.org/
```

## 1.238 di 0.0.1

### 1.238.1 Available under license :

The MIT License

Copyright (C) 2013 Vojta Jína.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do

so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.239 disruptor-3.3.0 3.3.0

### 1.239.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.240 domain\_name 0.5 :20160310

### 1.240.1 Available under license :

Copyright (c) 2011, 2012, 2013 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* lib/domain\_name/punycode.rb

Copyright (C) 2000-2002 Verisign Inc., All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- 1) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 2) Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3) Neither the name of the VeriSign Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software is licensed under the BSD open source license. For more information visit [www.opensource.org](http://www.opensource.org).

Authors:

John Colosi (VeriSign)

Srikanth Veeramachaneni (VeriSign)

Nagesh Chigurupati (Verisign)

Praveen Srinivasan(Verisign)

\* lib/domain\_name/etld\_data.rb

Version: MPL 1.1/GPL 2.0/LGPL 2.1

The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is the Public Suffix List.

The Initial Developer of the Original Code is Jo Hermans <jo.hermans@gmail.com>. Portions created by the Initial Developer are Copyright (C) 2007 the Initial Developer. All Rights Reserved.

Contributor(s):

Ruben Arakelyan <ruben@rubenarakelyan.com>

Gervase Markham <gerv@gerv.net>

Pamela Greene <pamg.bugs@gmail.com>

David Triendl <david@triendl.name>

Jothan Frakes <jothan@gmail.com>

The kind representatives of many TLD registries

Alternatively, the contents of this file may be used under the terms of either the GNU General Public License Version 2 or later (the "GPL"), or the GNU Lesser General Public License Version 2.1 or later (the "LGPL"), in which case the provisions of the GPL or the LGPL are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of either the GPL or the LGPL, and not to allow others to use your version of this file under the terms of the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL or the LGPL. If you do not delete the provisions above, a recipient may use your version of this file under the terms of any one of the MPL, the GPL or the LGPL.

## 1.241 druid 2.2.1

## 1.241.1 Available under license :

Druid - a distributed column store.

Copyright 2012-2015 Metamarkets Group Inc.

Copyright 2015 Yahoo! Inc.

-----  
This product contains a modified version of Andrew Duffy's java-alphanum library

\* LICENSE:

\* <https://github.com/amjdd/java-alphanum/blob/5c036e2e492cc7f3b7bcdebd46b8f9e2a87927e5/LICENSE.txt>

(Apache License, Version 2.0)

\* HOMEPAGE:

\* <https://github.com/amjdd/java-alphanum>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.242 druid-api-druid-api 0.3.17

## 1.242.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity.

For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the



outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

### 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

## 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

## 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

## 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

## 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

## 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.243 duplexer2 0.0.2

### 1.243.1 Available under license :

Copyright (c) 2013, Deoxxa Development

=====  
All rights reserved.  
-----

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Deoxxa Development nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY DEOXXA DEVELOPMENT "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL DEOXXA DEVELOPMENT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.244 duplexify 3.4.2

### 1.244.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.245 ed 1.1 :3.3.8.amzn1

### 1.245.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

## Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to

use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.



The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

## 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

## 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and

appropriately publish on each copy an appropriate copyright notice;  
keep intact all notices stating that this License and any  
non-permissive terms added in accord with section 7 apply to the code;  
keep intact all notices of the absence of any warranty; and give all  
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,  
and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to  
produce it from the Program, in the form of source code under the  
terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified  
it, and giving a relevant date.
  
- b) The work must carry prominent notices stating that it is  
released under this License and any conditions added under section  
7. This requirement modifies the requirement in section 4 to  
"keep intact all notices".
  
- c) You must license the entire work, as a whole, under this  
License to anyone who comes into possession of a copy. This  
License will therefore apply, along with any applicable section 7  
additional terms, to the whole of the work, and all its parts,  
regardless of how they are packaged. This License gives no  
permission to license the work in any other way, but it does not  
invalidate such permission if you have separately received it.
  
- d) If the work has interactive user interfaces, each must display  
Appropriate Legal Notices; however, if the Program has interactive  
interfaces that do not display Appropriate Legal Notices, your  
work need not make them do so.

A compilation of a covered work with other separate and independent  
works, which are not by their nature extensions of the covered work,  
and which are not combined with it such as to form a larger program,  
in or on a volume of a storage or distribution medium, is called an  
"aggregate" if the compilation and its resulting copyright are not  
used to limit the access or legal rights of the compilation's users  
beyond what the individual works permit. Inclusion of a covered work  
in an aggregate does not cause this License to apply to the other  
parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be

included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

## 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.



Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively

state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

```
/* GNU ed - The GNU line editor.
```

```
Copyright (C) 2006, 2007, 2008 Antonio Diaz Diaz.
```

This program is free software: you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

\*/

## 1.246 ee-first 1.1.1

### 1.246.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong [me@jungleberry.com](mailto:me@jungleberry.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.247 elasticsearch 1.0.17

### 1.247.1 Available under license :

Copyright 2013 Elasticsearch

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.248 elasticsearch-api 1.0.17

### 1.248.1 Available under license :

Copyright (c) 2013 Elasticsearch

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.249 elasticsearch-model 0.1.8

### 1.249.1 Available under license :

Copyright (c) 2014 Elasticsearch

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.250 elasticsearch-rails 0.1.8

## 1.250.1 Available under license :

Copyright (c) 2014 Elasticsearch

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.251 elasticsearch-transport 1.0.17

## 1.251.1 Available under license :

Copyright (c) 2013 Elasticsearch

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.252 elephant-bird-core 4.5

# 1.253 elephant-bird-elephant-bird 4.5

## 1.253.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and



- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010 Twitter, Inc and individual contributors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.254 encryptor 1.3.0

### 1.254.1 Available under license :

Copyright (c) 2011 Sean Huber - shuber@huberry.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.255 end-of-stream 1.1.0

### 1.255.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.256 end-of-stream 0.1.5

### 1.256.1 Available under license :

```
end-of-stream
```

A node module that calls a callback when a readable/writable/duplex stream has completed or failed.

```
npm install end-of-stream
```

```
Usage
```

Simply pass a stream and a callback to the `eos`.  
Both legacy streams and streams2 are supported.

```
``` js
var eos = require('end-of-stream');

eos(readableStream, function(err) {
  if (err) return console.log('stream had an error or closed early');
  console.log('stream has ended');
});

eos(writableStream, function(err) {
  if (err) return console.log('stream had an error or closed early');
  console.log('stream has finished');
});

eos(duplexStream, function(err) {
  if (err) return console.log('stream had an error or closed early');
  console.log('stream has ended and finished');
});

eos(duplexStream, { readable:false }, function(err) {
  if (err) return console.log('stream had an error or closed early');
  console.log('stream has ended but might still be writable');
});
```

```
eos(duplexStream, { writable:false }, function(err) {
  if (err) return console.log('stream had an error or closed early');
  console.log('stream has ended but might still be readable');
});
```

```
eos(readableStream, { error:false }, function(err) {
  // do not treat emit('error', err) as a end-of-stream
});
...

```

License

MIT

1.257 error-ex 1.3.0

1.257.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 JD Ballard

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.258 erubis 2.7.0

1.258.1 Available under license :

copyright(c) 2006-2011 kuwata-lab.com all rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.259 escape-html 1.0.2

1.259.1 Available under license :

(The MIT License)

Copyright (c) 2012-2013 TJ Holowaychuk

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.260 escape-string-regexp 1.0.3

1.260.1 Available under license :

```
# escape-string-regexp [![Build Status](https://travis-ci.org/sindresorhus/escape-string-  
-regexp.svg?branch=master)](https://travis-ci.org/sindresorhus/escape-string-regexp)
```

> Escape RegExp special characters

```
## Install
```

```
```sh  
$ npm install --save escape-string-regexp
```
```

```
## Usage
```

```
```js  
var escapeStringRegexp = require('escape-string-regexp');

var escapedString = escapeStringRegexp('how much $ for a unicorn?');
//=> how much \$ for a unicorn?

new RegExp(escapedString);
```
```

```
## License
```

```
MIT © [Sindre Sorhus](http://sindresorhus.com)
```

1.261 etag 1.7.0

1.261.1 Available under license :

(The MIT License)

Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.262 etcd-client 0.33

1.263 eventmachine 1.0.7

1.263.1 Available under license :

EventMachine is copyrighted free software owned by Francis Cianfrocca (blackhedd ... gmail.com). The Owner of this software permits you to redistribute and/or modify the software under either the terms of the GPL version 2 (see the file GPL), or the conditions below ("Ruby License"):

1. You may make and give away verbatim copies of the source form of this software without restriction, provided that you retain ALL of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
 - b) use the modified software only within your corporation or organization.
 - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
 - d) make other distribution arrangements with the Owner.
3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

- a) distribute the binaries and library files of the software, together with instructions (in a manual page or equivalent) on where to get the original distribution.
 - b) accompany the distribution with the machine-readable source of the software.
 - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
 - d) make other distribution arrangements with the Owner.
4. You may modify and include parts of the software into any other software (possibly commercial), provided you comply with the terms in Sections 1, 2, and 3 above. But some files in the distribution are not written by the Owner, so they may be made available to you under different terms.

For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this software.
6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

LEGAL NOTICE INFORMATION

EventMachine is Copyright (C) 2006-07 by Francis Cianfrocca.

EventMachine is copyrighted software owned by Francis Cianfrocca (blackhedd ... gmail.com). You may redistribute and/or modify this software as long as you comply with either the terms of the GPL (see the file GPL), or Ruby's license (see the file COPYING).

Your use of all the files in this distribution is controlled by these license terms, except for those files specifically mentioned below:

setup.rb

This file is Copyright (C) 2000-2005 by Minero Aoki
You can distribute/modify this file under the terms of
the GNU LGPL, Lesser General Public License version 2.1.

lib/em/buftok.rb

This file is Copyright (C) 2007 by Tony Arcieri. This file is
covered by the terms of Ruby's License (see the file COPYING).

1.264 eventmachine 1.0.3

1.264.1 Available under license :

EventMachine is copyrighted free software owned by Francis Cianfrocca (blackhedd ... gmail.com). The Owner of this software permits you to redistribute and/or modify the software under either the terms of the GPL version 2 (see the file GPL), or the conditions below ("Ruby License"):

1. You may make and give away verbatim copies of the source form of this software without restriction, provided that you retain ALL of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
 - b) use the modified software only within your corporation or organization.
 - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
 - d) make other distribution arrangements with the Owner.
3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:
 - a) distribute the binaries and library files of the software, together with instructions (in a manual page or equivalent) on where to get the original distribution.
 - b) accompany the distribution with the machine-readable source of the software.

c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

d) make other distribution arrangements with the Owner.

4. You may modify and include parts of the software into any other software (possibly commercial), provided you comply with the terms in Sections 1, 2, and 3 above. But some files in the distribution are not written by the Owner, so they may be made available to you under different terms.

For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in

the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN

OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.265 eventmachine 1.2.0.1

1.265.1 Available under license :

LEGAL NOTICE INFORMATION

EventMachine is Copyright (C) 2006-07 by Francis Cianfrocca.

EventMachine is copyrighted software owned by Francis Cianfrocca (blackhedd ... gmail.com). You may redistribute and/or modify this software as long as you comply with either the terms of the GPL (see the file GPL), or Ruby's license (see the file COPYING).

Your use of all the files in this distribution is controlled by these license terms, except for those files specifically mentioned below:

setup.rb

This file is Copyright (C) 2000-2005 by Minero Aoki
You can distribute/modify this file under the terms of
the GNU LGPL, Lesser General Public License version 2.1.

lib/em/buftok.rb

This file is Copyright (C) 2007 by Tony Arcieri. This file is
covered by the terms of Ruby's License (see the file COPYING).

EventMachine is copyrighted free software owned by Francis Cianfrocca (blackhedd ... gmail.com). The Owner of this software permits you to redistribute and/or modify the software under either the terms of the GPL version 2 (see the file GPL), or the conditions below ("Ruby License"):

1. You may make and give away verbatim copies of the source form of this software without restriction, provided that you retain ALL of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
 - b) use the modified software only within your corporation or organization.
 - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
 - d) make other distribution arrangements with the Owner.
3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:
 - a) distribute the binaries and library files of the software, together with instructions (in a manual page or equivalent) on where to get the original distribution.
 - b) accompany the distribution with the machine-readable source of the software.
 - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
 - d) make other distribution arrangements with the Owner.
4. You may modify and include parts of the software into any other software (possibly commercial), provided you comply with the terms in Sections 1, 2, and 3 above. But some files in the distribution are not written by the Owner, so they may be made available to you under different terms.

For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.266 execjs 2.6.0

1.267 exit-hook 1.1.1

1.267.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.268 expand-brackets 0.1.4

1.268.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.269 expand-range 1.8.1

1.269.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT

HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.270 expat 2.0.1

1.270.1 Available under license :

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
and Clark Cooper

Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.271 express-session 1.11.3

1.271.1 Available under license :

(The MIT License)

Copyright (c) 2010 Sencha Inc.

Copyright (c) 2011 TJ Holowaychuk <tj@vision-media.ca>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.272 extend 3.0.0

1.272.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Stefan Thomas

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.273 facter 2.4.3 :puppetlabs1

1.273.1 Available under license :

Facter - Host Fact Detection and Reporting

Copyright 2005-2014 Puppet Labs Inc

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This package was debianized by Jacob Helwig <jacob@puppetlabs.com> on
Sat, 11 Dec 2010 21:11:11 -0800

It was downloaded from <http://www.puppetlabs.com/>

Upstream Author:

Puppet Labs <info@puppetlabs.com>

Copyright:

Copyright 2010-2011 Puppet Labs <info@puppetlabs.com>

License: ASL-2

<http://www.apache.org/licenses/LICENSE-2.0>

On a Debian system, the license can be found at
</usr/share/common-licenses/Apache-2.0> .

1.274 facter 2.4.3 :el7

1.274.1 Available under license :

Facter - Host Fact Detection and Reporting

Copyright 2005-2014 Puppet Labs Inc

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

This package was debianized by Jacob Helwig <jacob@puppetlabs.com> on Sat, 11 Dec 2010 21:11:11 -0800

It was downloaded from <http://www.puppetlabs.com/>

Upstream Author:

Puppet Labs <info@puppetlabs.com>

Copyright:

Copyright 2010-2011 Puppet Labs <info@puppetlabs.com>

License: ASL-2

<http://www.apache.org/licenses/LICENSE-2.0>

On a Debian system, the license can be found at
</usr/share/common-licenses/Apache-2.0> .

1.275 factory_girl_rails 4.4.1

1.275.1 Available under license :

Copyright (c) 2010 Joe Ferris and thoughtbot, inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.276 faker 1.4.3

1.276.1 Available under license :

Copyright (c) 2007-2010 Benjamin Curtis

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.277 fancy-log 1.1.0

1.277.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Blaine Bublitz

Based on gulp-util, copyright 2014 Fractal <contact@wearefractal.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.278 faraday 0.9.2

1.278.1 Available under license :

Copyright (c) 2009-2015 Rick Olson, Zack Hobson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.279 ffi 1.9.10

1.279.1 Available under license :

Copyright (c) 2008-2013, Ruby FFI project contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the Ruby FFI project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libffi, used by this project, is licensed under the MIT license:

libffi - Copyright (c) 1996-2011 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2013, Ruby FFI project contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the Ruby FFI project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libffi - Copyright (c) 1996-2011 Anthony Green, Red Hat, Inc and others.

See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2014 Ruby-FFI contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT

HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this

provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

This License refers to version 3 of the GNU General Public License.

Copyright also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

The Program refers to any copyrightable work licensed under this License. Each licensee is addressed as you. Licensees and recipients may be individuals or organizations.

To modify a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a modified version of the earlier work or a work based on the earlier work.

A covered work means either the unmodified Program or a work based on the Program.

To propagate a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To convey a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays Appropriate Legal Notices to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The source code for a work means the preferred form of the work for making modifications to it. Object code means any non-source form of a work.

A Standard Interface means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The System Libraries of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves

only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A Major Component, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating

that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that

supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that

copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered further restrictions within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A contributor is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's contributor version.

A contributor's essential patent claims are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, control includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a patent license is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To grant such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3)

arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. Knowingly relying means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is discriminatory if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License or any later version applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM AS IS WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the copyright line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by
```

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an about box.

You should also get your employer (if you work as a programmer) or school, if any, to sign a copyright disclaimer for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.280 ffi 1.9.8

1.280.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If

the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of

copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product,

doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent

that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express

agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or
```

(at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

MOZILLA PUBLIC LICENSE
Version 1.1

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is

granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You

distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which

are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial

Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that

the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not

mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such

terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the MPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<https://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is _____.

The Initial Developer of the Original Code is _____.

Portions created by _____ are Copyright (C) _____
_____. All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the "[_____] License"), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [_____] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [_____] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [_____] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]

libffi - Copyright (c) 1996-2011 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2014 Ruby-FFI contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2013, Ruby FFI project contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the Ruby FFI project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS

SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/* -----

ffi.c - Copyright (c) 2011 Anthony Green
Copyright (c) 2000 Hewlett Packard Company
Copyright (c) 1998, 2007, 2008 Red Hat, Inc.

IA64 Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */

/* -----

osf.S - Copyright (c) 1998, 2001, 2007, 2008, 2011 Red Hat

Alpha/OSF Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT

HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----- */

/* -----

ffi64.c - Copyright (c) 20011 Anthony Green
Copyright (c) 2008, 2010 Red Hat, Inc.
Copyright (c) 2002, 2007 Bo Thorsen <bo@suse.de>

x86-64 Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----- */

/* -----

ffi.c - Copyright (c) 1996, 1998, 1999, 2001, 2007, 2008 Red Hat, Inc.
Copyright (c) 2002 Ranjit Mathew
Copyright (c) 2002 Bo Thorsen
Copyright (c) 2002 Roger Sayle
Copyright (C) 2008, 2010 Free Software Foundation, Inc.

x86 Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */
/* -----

ffi.c - Copyright (c) 2002, 2003, 2004, 2005, 2006, 2007, 2008 Kaz Kojima
Copyright (c) 2008 Red Hat, Inc.

SuperH Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */
/* -----

linux.S - (c) 2003-2004 Randolph Chung <tausq@debian.org>
(c) 2008 Red Hat, Inc.

HPPA Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL RENESAS TECHNOLOGY BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */
/* -----

closures.c - Copyright (c) 2007, 2009, 2010 Red Hat, Inc.
 Copyright (C) 2007, 2009, 2010 Free Software Foundation, Inc
 Copyright (c) 2011 Plausible Labs Cooperative, Inc.

Code to allocate and deallocate memory for closures.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */
Copyright (c) 2008-2013, Ruby FFI project contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the Ruby FFI project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libffi, used by this project, is licensed under the MIT license:

libffi - Copyright (c) 1996-2011 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/*

- * Copyright (c) 2009, Wayne Meissner
- * Copyright (c) 2009, Luc Heinrich <luc@honk-honk.com>
- * Copyright (c) 2009, Mike Dalessio <mike.dalessio@gmail.com>

```

* Copyright (c) 2009, Aman Gupta.
* Copyright (c) 2008-2013, Ruby FFI project contributors
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*   * Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*   * Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*   * Neither the name of the Ruby FFI project nor the
*     names of its contributors may be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
* DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
#!/bin/sh
# Guess values for system-dependent variables and create Makefiles.
# Generated by GNU Autoconf 2.68 for libffi 3.0.10.
#
# Report bugs to <http://sourceware.org/libffi.html>.
#
#
# Copyright (C) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001,
# 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Free Software
# Foundation, Inc.
#
#
# This configure script is free software; the Free Software Foundation
# gives unlimited permission to copy, distribute and modify it.
## ----- ##
## M4sh Initialization. ##
## ----- ##

Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005,
# 2006, 2007, 2008, 2009, 2010 Free Software Foundation,
# Inc.
# Written by Gordon Matzigkeit, 1996

```

```
#
# This file is part of GNU Libtool.
#
# GNU Libtool is free software; you can redistribute it and/or
# modify it under the terms of the GNU General Public License as
# published by the Free Software Foundation; either version 2 of
# the License, or (at your option) any later version.
#
# As a special exception to the GNU General Public License,
# if you distribute this file as part of a program or library that
# is built using GNU Libtool, you may include this file under the
# same distribution terms that you use for the rest of that program.
#
# GNU Libtool is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with GNU Libtool; see the file COPYING. If not, a copy
# can be downloaded from http://www.gnu.org/licenses/gpl.html, or
# obtained by writing to the Free Software Foundation, Inc.,
# 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005,
# 2006, 2007, 2008, 2009, 2010 Free Software Foundation,
# Inc.
# Written by Gordon Matzigkeit, 1996
#
# This file is part of GNU Libtool.
#
# GNU Libtool is free software; you can redistribute it and/or
# modify it under the terms of the GNU General Public License as
# published by the Free Software Foundation; either version 2 of
# the License, or (at your option) any later version.
#
# As a special exception to the GNU General Public License,
# if you distribute this file as part of a program or library that
# is built using GNU Libtool, you may include this file under the
# same distribution terms that you use for the rest of that program.
#
# GNU Libtool is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with GNU Libtool; see the file COPYING. If not, a copy
# can be downloaded from http://www.gnu.org/licenses/gpl.html, or
```

obtained by writing to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

/* -----*_C-*-----

ffitarget.h - Copyright (c) 1996-2003 Red Hat, Inc.
Target configuration macros for Motorola 68K.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */
/* -----

sysv.S - Copyright (c) 1998 Andreas Schwab
Copyright (c) 2008 Red Hat, Inc.

m68k Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
----- */
/* -----
raw_api.c - Copyright (c) 1999, 2008 Red Hat, Inc.
```

Author: Kresten Krab Thorup <krab@gnu.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
----- */
/* -----
java_raw_api.c - Copyright (c) 1999, 2007, 2008 Red Hat, Inc.
```

Cloned from raw_api.c

Raw_api.c author: Kresten Krab Thorup <krab@gnu.org>

Java_raw_api.c author: Hans-J. Boehm <hboehm@hpl.hp.com>

\$Id \$

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----- */
Copyright (C) 2003, 2006, 2009, 2010 Free Software Foundation, Inc.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; see the file COPYING3. If not see
<<http://www.gnu.org/licenses/>>.
Copyright (C) 2003, 2005, 2008, 2009 Free Software Foundation, Inc.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
generated automatically by aclocal 1.11.1 -*- Autoconf -*-

Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004,
2005, 2006, 2007, 2008, 2009 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation


```
# gives unlimited permission to copy and/or distribute it,
# with or without modifications, as long as this notice is preserved.

# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY, to the extent permitted by law; without
# even the implied warranty of MERCHANTABILITY or FITNESS FOR A
# PARTICULAR PURPOSE.
scriptversion=2009-04-28.21; # UTC

# This originates from X11R5 (mit/util/scripts/install.sh), which was
# later released in X11R6 (xc/config/util/install.sh) with the
# following copyright and license.
#
# Copyright (C) 1994 X Consortium
#
# Permission is hereby granted, free of charge, to any person obtaining a copy
# of this software and associated documentation files (the "Software"), to
# deal in the Software without restriction, including without limitation the
# rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
# sell copies of the Software, and to permit persons to whom the Software is
# furnished to do so, subject to the following conditions:
#
# The above copyright notice and this permission notice shall be included in
# all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
# IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
# FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
# X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
# AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNec-
# TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#
# Except as contained in this notice, the name of the X Consortium shall not
# be used in advertising or otherwise to promote the sale, use or other deal-
# ings in this Software without prior written authorization from the X Consor-
# tium.
#
# FSF changes to this file are in the public domain.
#
# Calling this script install-sh is preferred over install.sh, to prevent
# `make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
# from scratch.
#!/bin/sh
```

```

# ***** BEGIN LICENSE BLOCK *****
# Version: MPL 1.1/GPL 2.0/LGPL 2.1
#
# The contents of this file are subject to the Mozilla Public License Version
# 1.1 (the "License"); you may not use this file except in compliance with
# the License. You may obtain a copy of the License at
# http://www.mozilla.org/MPL/
#
# Software distributed under the License is distributed on an "AS IS" basis,
# WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
# for the specific language governing rights and limitations under the
# License.
#
# The Original Code is the MSVC wrappificator.
#
# The Initial Developer of the Original Code is
# Timothy Wall <twalljava@dev.java.net>.
# Portions created by the Initial Developer are Copyright (C) 2009
# the Initial Developer. All Rights Reserved.
#
# Contributor(s):
# Daniel Witte <dwitte@mozilla.com>
#
# Alternatively, the contents of this file may be used under the terms of
# either the GNU General Public License Version 2 or later (the "GPL"), or
# the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
# in which case the provisions of the GPL or the LGPL are applicable instead
# of those above. If you wish to allow use of your version of this file only
# under the terms of either the GPL or the LGPL, and not to allow others to
# use your version of this file under the terms of the MPL, indicate your
# decision by deleting the provisions above and replace them with the notice
# and other provisions required by the GPL or the LGPL. If you do not delete
# the provisions above, a recipient may use your version of this file under
# the terms of any one of the MPL, the GPL or the LGPL.
#
# ***** END LICENSE BLOCK *****
/*
 * Copyright (c) 2009, Wayne Meissner
 *
 * Copyright (c) 2008-2013, Ruby FFI project contributors
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are met:
 *   * Redistributions of source code must retain the above copyright
 *     notice, this list of conditions and the following disclaimer.
 *   * Redistributions in binary form must reproduce the above copyright
 *     notice, this list of conditions and the following disclaimer in the

```

* documentation and/or other materials provided with the distribution.
* * Neither the name of the Ruby FFI project nor the
* names of its contributors may be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
* DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

1.281 figures 1.4.0

1.281.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.282 filename-regex 2.0.0

1.282.1 Available under license :

```
# filename-regexp [![NPM version](https://badge.fury.io/js/filename-regexp)](http://badge.fury.io/js/filename-regexp)
```

> Regular expression for matching file names, with or without extension.

```
## Install with [npm](npmjs.org)
```

```
```bash
```

```
npm i filename-regexp --save
```

```
```
```

```
## Usage
```

```
```js
```

```
var regex = require('filename-regexp');
```

```
'a/b/c/d.min.js'.match(regex());
```

```
//=> match[0] = 'd.min.js'
```

```
'a/b/c/.dotfile'.match(regex());
```

```
//=> match[0] = '.dotfile'
```

```
```
```

```
## Run tests
```

Install dev dependencies:

```
```bash
```

```
npm i -d && npm test
```

```
```
```

```
## Contributing
```

Pull requests and stars are always welcome. For bugs and feature requests, [please create an issue](https://github.com/regexps/filename-regexp/issues)

```
## Author
```

```
**Jon Schlinkert**
```

```
+ [github/jonschlinkert](https://github.com/jonschlinkert)
```

```
+ [twitter/jonschlinkert](http://twitter.com/jonschlinkert)
```

License
Copyright (c) 2015 Jon Schlinkert
Released under the MIT license

This file was generated by [verb](https://github.com/assemble/verb) on January 24, 2015.

1.283 finalhandler 0.4.0

1.283.1 Available under license :

(The MIT License)

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.284 find-index 0.1.1

1.284.1 Available under license :

find-index

finds an item in an array matching a predicate function,
and returns its index

fast both when `thisArg` is used and also when it isn't: [jsPerf](http://jsperf.com/array-prototype-findindex-shims)

usage

```
```bash
npm install find-index
```

```js
findIndex = require('find-index')
findLastIndex = require('find-index/last')
```

findIndex(array, callback[, thisArg])
findLastIndex(array, callback[, thisArg])

Parameters:
array
  The array to operate on.
callback
  Function to execute on each value in the array, taking three arguments:
  element
    The current element being processed in the array.
  index
    The index of the current element being processed in the array.
  array
    The array findIndex was called upon.
thisArg
  Object to use as this when executing callback.
```

based on [array-findindex](<https://www.npmjs.org/package/array-findindex>)

1.285 find-up 1.1.0

1.285.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.286 first-chunk-stream 1.0.0

1.286.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.287 flagged-respawn 0.3.1

1.287.1 Available under license :

Copyright (c) 2014 Tyler Kellen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.288 font-awesome-rails 4.4.0

1.288.1 Available under license :

Copyright (c) 2012 bokmann

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.289 for-in 0.1.4

1.289.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.290 for-own 0.1.3

1.290.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.291 forever-agent 0.5.2

1.291.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such

Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR

CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.292 form-data 1.0.0-rc2

1.292.1 Available under license :

Copyright (c) 2012 Felix Geisendrfer (felix@debuggable.com) and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.293 form-data 0.1.4

1.293.1 Available under license :

Copyright (c) 2012 Felix Geisendrfer (felix@debuggable.com) and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.294 fping 2.4b2

1.294.1 Available under license :

/*

- * Redistribution and use in source and binary forms are permitted
 - * provided that the above copyright notice and this paragraph are
 - * duplicated in all such forms and that any documentation,
 - * advertising materials, and other materials related to such
 - * distribution and use acknowledge that the software was developed
 - * by Stanford University. The name of the University may not be used
 - * to endorse or promote products derived from this software without
 - * specific prior written permission.
 - * THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR
 - * IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
 - * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- */

1.295 fpm 1.3.3

1.295.1 Available under license :

The following awesome folks have contributed ideas, bug reports, code, or other to fpm:

anthezium
Curt Micol
Jay Adkisson
Jordan Sissel
Marc Fournier
Michael Blume
Pierre-Yves Ritschard
sabowski
Thomas Haggett
Pieter Loubser
Aleix Conchillo Flaqu (github: aconchillo)
Luke Macken (github: lmacken)
Matt Blair (github: mblair)
Thomas Meson (github: zllak)
Oliver Hookins (github: ohookins)
llasram
sbuss
Brett Gailey (github: dnbert)
Daniel Haskin (github: djhaskin987)

If you have contributed (bug reports, feature requests, help in IRC, blog posts, code, etc) and aren't listed here, please let me know if you wish to be added!

(This is an MIT-style license)

Copyright (c) 2011,2012,2013 Jordan Sissel and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

THE SOFTWARE.

1.296 fresh 0.3.0

1.296.1 Available under license :

(The MIT License)

Copyright (c) 2012 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.297 fs-write-stream-atomic 1.0.5

1.297.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.298 fstream 1.0.8

1.298.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.299 fstream-ignore 1.0.3

1.299.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.300 gauge 1.2.2

1.300.1 Available under license :

Copyright (c) 2014, Rebecca Turner <me@re-becca.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.301 gaze 0.5.2

1.301.1 Available under license :

Copyright (c) 2013 Kyle Robinson Young

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR

1.302 generate-function 2.0.0

1.302.1 Available under license :

```
# generate-function
```

Module that helps you write generated functions in Node

```
...
```

```
npm install generate-function
```

```
...
```

```
[![build status](http://img.shields.io/travis/mafintosh/generate-function.svg?style=flat)](http://travis-ci.org/mafintosh/generate-function)
```

```
## Disclaimer
```

Writing code that generates code is hard.

You should only use this if you really, really, really need this for performance reasons (like schema validators / parsers etc).

```
## Usage
```

```
``` js
```

```
var genfun = require('generate-function')
```

```
var addNumber = function(val) {
```

```
 var fn = genfun()
```

```
 ('function add(n) {')
```

```
 ('return n + %d', val) // supports format strings to insert values
```

```
 (')')
```

```
 return fn.toFunction() // will compile the function
```

```
}
```

```
var add2 = addNumber(2)
```

```
console.log('1+2=', add2(1))
```

```
console.log(add2.toString()) // prints the generated function
```

```
```
```

If you need to close over variables in your generated function pass them to `toFunction(scope)`

```
``` js
```

```
var multiply = function(a, b) {
```

```
 return a * b
```

```

}

var addAndMultiplyNumber = function(val) {
 var fn = genfun()
 ('function(n) {'
 ('if (typeof n !== "number") {' // ending a line with { will indent the source
 ('throw new Error("argument should be a number")')
 ('}')
 ('var result = multiply(%d, n+%d)', val, val)
 ('return result')
 ('}')

 // use fn.toString() if you want to see the generated source

 return fn.toFunction({
 multiply: multiply
 })
}

var addAndMultiply2 = addAndMultiplyNumber(2)

console.log('(3 + 2) * 2 =', addAndMultiply2(3))
...

```

## Related

See [generate-object-property](<https://github.com/mafintosh/generate-object-property>) if you need to safely generate code that can be used to reference an object property

## License

MIT

## 1.303 generate-object-property 1.2.0

### 1.303.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.304 get-stdin 4.0.1

### 1.304.1 Available under license :

```
get-stdin [![Build Status](https://travis-ci.org/sindresorhus/get-stdin.svg?branch=master)](https://travis-ci.org/sindresorhus/get-stdin)
```

```
> Easier stdin
```

```
Install
```

```
```sh
```

```
$ npm install --save get-stdin
```

```
```
```

```
Usage
```

```
```js
```

```
// example.js
```

```
var stdin = require('get-stdin');
```

```
stdin(function (data) {
```

```
  console.log(data);
```

```
  //=> unicorns
```

```
});
```

```
```
```

```
```sh
```

```
$ echo unicorns | node example.js
```

```
unicorns
```

```
```
```

```
API
```

```
stdin(callback)
```

Get `stdin` as a string.

```
stdin.buffer(callback)
```

Get `stdin` as a buffer.

```
License
```

```
MIT ÃÂ© [Sindre Sorhus](http://sindresorhus.com)
```

## 1.305 giflib 4.1.6 :ICS

### 1.305.1 Available under license :

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.306 github 0.2.4

### 1.306.1 Available under license :

The MIT License

Copyright (c) 2012 Cloud9 IDE, Inc. (Mike de Boer)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.307 glob 5.0.14

### 1.307.1 Available under license :

```
{
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me/)",
 "name": "glob",
 "description": "a little globber",
 "version": "5.0.14",
 "repository": {
 "type": "git",
 "url": "git://github.com/isaacs/node-glob.git"
 },
 "main": "glob.js",
 "files": [
 "glob.js",
 "sync.js",
 "common.js"
],
 "engines": {
 "node": "*"
 },
 "dependencies": {
 "inflight": "^1.0.4",
 "inherits": "2",
 "minimatch": "^2.0.1",
 "once": "^1.3.0",
 "path-is-absolute": "^1.0.0"
 },
 "devDependencies": {
 "mkdirp": "0",
 "rimraf": "^2.2.8",
 }
}
```

```

 "tap": "^1.1.4",
 "tick": "0.0.6"
 },
 "scripts": {
 "prepublish": "npm run benchclean",
 "profclean": "rm -f v8.log profile.txt",
 "test": "tap test/*.js --cov",
 "test-regen": "npm run profclean && TEST_REGEN=1 node test/00-setup.js",
 "bench": "bash benchmark.sh",
 "prof": "bash prof.sh && cat profile.txt",
 "benchclean": "node benchclean.js"
 },
 "license": "ISC"
}

```

## 1.308 glob 3.2.11

### 1.308.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")  
All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.309 glob-base 0.3.0

## 1.309.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.310 glob-parent 2.0.0

## 1.310.1 Available under license :

The ISC License

Copyright (c) 2015 Elan Shanker

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



# 1.311 glob-stream 3.1.18

## 1.311.1 Available under license :

Copyright (c) 2013 Fractal <contact@wearefractal.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.312 glob-watcher 0.0.6

## 1.312.1 Available under license :

Copyright (c) 2013 Fractal <contact@wearefractal.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

## 1.313 glob2base 0.0.12

### 1.313.1 Available under license :

Copyright (c) 2014 Fractal <contact@wearefractal.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.314 globule 0.1.0

### 1.314.1 Available under license :

Copyright (c) 2013 "Cowboy" Ben Alman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.315 glog 0.3.3

### 1.315.1 Available under license :

Copyright (c) 2008, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A function `gettimeofday` in `utilities.cc` is based on

<http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/COPYING&q=GetSystemTimeAsFileTime%20license:bsd>

The license of this code is:

Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors

All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name(s) of the above-listed copyright holder(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package was debianized by Google Inc. <opensource@google.com> on 13 June 2008.

It was downloaded from <http://code.google.com/>

Upstream Author: [opensource@google.com](mailto:opensource@google.com)

Copyright (c) 2008, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.316 glogg 1.0.0

### 1.316.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Blaine Bublitz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.317 got 3.3.1

## 1.317.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.318 graceful-fs 3.0.8

### 1.318.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.319 graceful-readlink 1.0.1

## 1.319.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Zhiye Li

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.320 graceful-readlink 1.0.1

## 1.320.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Zhiye Li

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.321 Grafana 2.6.0

### 1.321.1 Available under license :

Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 The bufio Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the



distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012 The Redis Go Client Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2014-2015 Torkel degaard, Raintank Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This software is based on Kibana:

=====

Copyright 2012-2013 Elasticsearch BV

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2015 Ganaraj P R, [Nebithi](<http://www.nebithi.com>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2012-2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.  
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:

- \* Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above  
copyright notice, this list of conditions and the following disclaimer  
in the documentation and/or other materials provided with the  
distribution.
- \* Neither the name of Google Inc. nor the names of its  
contributors may be used to endorse or promote products derived from  
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
AWS SDK for JavaScript

Copyright 2012-2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed at  
Amazon Web Services, Inc. (<http://aws.amazon.com/>).  
The bundled package of the AWS SDK for JavaScript is available under the  
Apache License, Version 2.0:

Copyright 2012-2014 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License"). You  
may not use this file except in compliance with the License. A copy of  
the License is located at

<http://aws.amazon.com/apache2.0/>

or in the "license" file accompanying this file. This file is

distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product bundles browserify, which is available under a "3-clause BSD" license:

Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This product bundles crypto-browserify, which is available under the MIT license:

Copyright (c) 2013 Dominic Tarr

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES



OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This product bundles MD5, SHA-1, and SHA-256 hashing algorithm components, which are available under a BSD license:

Copyright (c) 1998 - 2009, Paul Johnston & Contributors  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2014 jQuery Foundation and other contributors  
<http://jquery.com/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

RequireJS is released under two licenses: new BSD, and MIT. You may pick the license that best suits your development needs. The text of both licenses are provided below.

The "New" BSD License:

-----

Copyright (c) 2010-2014, The Dojo Foundation  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the Dojo Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

MIT License

-----

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2014-2015 Torkel Ödegaard, Raintank Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Mozilla Public License Version 2.0

=====

1. Definitions

-----

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its

Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

-----

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under

this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software;  
or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

#### 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

#### 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

#### 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

#### 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

-----

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,

indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

#### 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

#### 5. Termination

-----

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all





Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

-----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

-----

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the

notice described in Exhibit B of this License must be attached.

#### Exhibit A - Source Code Form License Notice

-----

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

#### Exhibit B - "Incompatible With Secondary Licenses" Notice

-----

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

Copyright (c) 2013 - 2014

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the {organization} nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013, Space Monkey, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011-2013, 'pq' Contributors

Portions Copyright (C) 2011 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a



file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

RequireJS is released under two licenses: new BSD, and MIT. You may pick the license that best suits your development needs. The text of both licenses are provided below.

The "New" BSD License:

-----

Copyright (c) 2010-2014, The Dojo Foundation  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the Dojo Foundation nor the names of its contributors may be used to endorse or promote products derived from this software

without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

MIT License

-----

Copyright (c) 2010-2014, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2014 jQuery Foundation and other contributors

<http://jquery.com/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
Copyright 2014-2015 Torkel degaard, Raintank Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including

but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have



made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

#### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2013 The bufio Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012 The Redis Go Client Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 - 2014

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the {organization} nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Copyright (c) 2011-2013, 'pq' Contributors  
Portions Copyright (C) 2011 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated  
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the  
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit  
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the  
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,  
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A  
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR  
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN  
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION  
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012, Sean Treadway, SoundCloud Ltd.  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this  
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this  
list of conditions and the following disclaimer in the documentation and/or  
other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Mozilla Public License Version 2.0

=====

## 1. Definitions

-----

### 1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

### 1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

### 1.3. "Contribution"

means Covered Software of a particular Contributor.

### 1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

### 1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

### 1.6. "Executable Form"

means any form of the work other than Source Code Form.

### 1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

### 1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

- (a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or
- (b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

-----

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,



non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark)  
Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software;  
or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

## 3. Responsibilities

-----

### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,

provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

## 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Termination

-----

5.1. The rights granted under this License will terminate automatically



\*

\* Under no circumstances and under no legal theory, whether tort \*  
 \* (including negligence), contract, or otherwise, shall any \*  
 \* Contributor, or anyone who distributes Covered Software as \*  
 \* permitted above, be liable to You for any direct, indirect, \*  
 \* special, incidental, or consequential damages of any character \*  
 \* including, without limitation, damages for lost profits, loss of \*  
 \* goodwill, work stoppage, computer failure or malfunction, or any \*  
 \* and all other commercial damages or losses, even if such party \*  
 \* shall have been informed of the possibility of such damages. This \*  
 \* limitation of liability shall not apply to liability for death or \*  
 \* personal injury resulting from such party's negligence to the \*  
 \* extent applicable law prohibits such limitation. Some \*  
 \* jurisdictions do not allow the exclusion or limitation of \*  
 \* incidental or consequential damages, so this exclusion and \*  
 \* limitation may not apply to You. \*

\*

\*\*\*\*\*

## 8. Litigation

-----

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

-----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

-----

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

## 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

## 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

## 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

### Exhibit A - Source Code Form License Notice

-----

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

### Exhibit B - "Incompatible With Secondary Licenses" Notice

-----

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,



excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

The MIT License (MIT)

Copyright (c) 2014 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.  
Copyright (c) 2013, Space Monkey, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS

FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# This source code was written by the Go contributors.  
# The master list of contributors is in the main Go distribution,  
# visible at <http://tip.golang.org/CONTRIBUTORS>.  
Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software is based on Kibana:

=====

Copyright 2012-2013 Elasticsearch BV

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or



implied. See the License for the specific language governing permissions and limitations under the License.

# 1.322 grafana 3.0

## 1.322.1 Available under license :

Copyright 2014 jQuery Foundation and other contributors  
<http://jquery.com/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2014-2016 Torkel degaard, Raintank Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

## 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along

with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to

damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2013 The bufio Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012 The Redis Go Client Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 - 2015 The Xorm Authors

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the {organization} nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 - 2015 Lunny Xiao <xiaolunwen@gmail.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of the {organization} nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.  
The MIT License (MIT)

Copyright (c) 2013 Fatih Arslan



Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

AWS SDK for Go

Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Copyright 2014-2015 Stripe, Inc.

Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2011-2013, 'pq' Contributors

Portions Copyright (C) 2011 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit

persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Mozilla Public License, version 2.0

## 1. Definitions

### 1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

### 1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

### 1.3. Contribution

means Covered Software of a particular Contributor.

### 1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

### 1.5. Incompatible With Secondary Licenses

means

- a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or
- b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

### 1.6. Executable Form

means any form of the work other than Source Code Form.

#### 1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

#### 1.8. License

means this document.

#### 1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

#### 1.10. Modifications

means any of the following:

- a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or
- b. any new file in Source Code Form that contains any Covered Software.

#### 1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

#### 1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

#### 1.13. Source Code Form

means the form of the work preferred for making modifications.

#### 1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is

controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants and Conditions

### 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

### 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

### 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- a. for any code that a Contributor has removed from Covered Software; or
- b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or



logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

#### 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

#### 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

#### 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

#### 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

#### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

- b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

## 4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to

understand it.

## 5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

## 6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

## 7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any

character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

## 8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any

references to the name of the license steward (except to note that such modified license differs from this License).

#### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

##### Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

##### Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible With Secondary Licenses, as defined by the Mozilla Public License, v. 2.0.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.



9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012, Sean Treadway, SoundCloud Ltd.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Copyright (c) 2015 Klaus Post

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Mozilla Public License Version 2.0

=====

## 1. Definitions

-----

### 1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

### 1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

### 1.3. "Contribution"

means Covered Software of a particular Contributor.

### 1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

### 1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

### 1.6. "Executable Form"

means any form of the work other than Source Code Form.

### 1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

### 1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

- (a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or
- (b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

-----

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,

non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark)  
Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software;  
or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

## 3. Responsibilities

-----

### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,

provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

#### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

#### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

#### 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

#### 5. Termination

-----

5.1. The rights granted under this License will terminate automatically



if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

\*\*\*\*\*

```
*
*
* 6. Disclaimer of Warranty
* -----
*
* Covered Software is provided under this License on an "as is"
* basis, without warranty of any kind, either expressed, implied, or
* statutory, including, without limitation, warranties that the
* Covered Software is free of defects, merchantable, fit for a
* particular purpose or non-infringing. The entire risk as to the
* quality and performance of the Covered Software is with You.
* Should any Covered Software prove defective in any respect, You
* (not any Contributor) assume the cost of any necessary servicing,
* repair, or correction. This disclaimer of warranty constitutes an
* essential part of this License. No use of any Covered Software is
* authorized under this License except under this disclaimer.
*
```

\*\*\*\*\*

\*\*\*\*\*

```
*
*
* 7. Limitation of Liability
* -----
*
```

\*

\* Under no circumstances and under no legal theory, whether tort \*  
 \* (including negligence), contract, or otherwise, shall any \*  
 \* Contributor, or anyone who distributes Covered Software as \*  
 \* permitted above, be liable to You for any direct, indirect, \*  
 \* special, incidental, or consequential damages of any character \*  
 \* including, without limitation, damages for lost profits, loss of \*  
 \* goodwill, work stoppage, computer failure or malfunction, or any \*  
 \* and all other commercial damages or losses, even if such party \*  
 \* shall have been informed of the possibility of such damages. This \*  
 \* limitation of liability shall not apply to liability for death or \*  
 \* personal injury resulting from such party's negligence to the \*  
 \* extent applicable law prohibits such limitation. Some \*  
 \* jurisdictions do not allow the exclusion or limitation of \*  
 \* incidental or consequential damages, so this exclusion and \*  
 \* limitation may not apply to You. \*

\*

\*\*\*\*\*

## 8. Litigation

-----

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

-----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

-----

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

## 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

## 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

## 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

### Exhibit A - Source Code Form License Notice

-----

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

### Exhibit B - "Incompatible With Secondary Licenses" Notice

-----

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this

list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2013 Richard Musiol. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE



OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2016 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2013 Jeremy Saenz  
All Rights Reserved.

#### MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014 SmartyStreets, LLC

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

NOTE: Various optional and subordinate components carry their own licensing requirements and restrictions. Use of those components is subject to the terms and conditions outlined the respective license of each component.

The MIT License (MIT)

Copyright (c) 2013 Jonathan Leibusky and Marcos Lilljedahl

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Space Monkey, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# This source code was written by the Go contributors.

# The master list of contributors is in the main Go distribution,

# visible at <http://tip.golang.org/CONTRIBUTORS>.

Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software is based on Kibana:

=====

Copyright 2012-2013 Elasticsearch BV

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.323 Grafana 2.0.2

### 1.323.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity.

For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by

contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such

Derivative Works in Source or Object form.

### 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies

with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You



agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Mozilla Public License Version 2.0

=====

#### 1. Definitions

-----

##### 1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

##### 1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

##### 1.3. "Contribution"

means Covered Software of a particular Contributor.

##### 1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached

the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

- (a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or
- (b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

- (a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or
- (b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

#### 1.13. "Source Code Form"

means the form of the work preferred for making modifications.

#### 1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

### 2. License Grants and Conditions

-----

#### 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

#### 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

#### 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a

Contributor:

- (a) for any code that a Contributor has removed from Covered Software;  
or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

#### 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

#### 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

#### 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

#### 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

-----

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under

the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any

such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

#### 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

#### 5. Termination

-----

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

\*\*\*\*\*

\* \*  
 \* 6. Disclaimer of Warranty \*  
 \* ----- \*  
 \* \*  
 \* Covered Software is provided under this License on an "as is" \*  
 \* basis, without warranty of any kind, either expressed, implied, or \*  
 \* statutory, including, without limitation, warranties that the \*  
 \* Covered Software is free of defects, merchantable, fit for a \*  
 \* particular purpose or non-infringing. The entire risk as to the \*  
 \* quality and performance of the Covered Software is with You. \*  
 \* Should any Covered Software prove defective in any respect, You \*  
 \* (not any Contributor) assume the cost of any necessary servicing, \*  
 \* repair, or correction. This disclaimer of warranty constitutes an \*  
 \* essential part of this License. No use of any Covered Software is \*  
 \* authorized under this License except under this disclaimer. \*  
 \* \*

\*\*\*\*\*

\*\*\*\*\*

\* \*  
 \* 7. Limitation of Liability \*  
 \* ----- \*  
 \* \*  
 \* Under no circumstances and under no legal theory, whether tort \*  
 \* (including negligence), contract, or otherwise, shall any \*  
 \* Contributor, or anyone who distributes Covered Software as \*  
 \* permitted above, be liable to You for any direct, indirect, \*  
 \* special, incidental, or consequential damages of any character \*  
 \* including, without limitation, damages for lost profits, loss of \*  
 \* goodwill, work stoppage, computer failure or malfunction, or any \*  
 \* and all other commercial damages or losses, even if such party \*  
 \* shall have been informed of the possibility of such damages. This \*  
 \* limitation of liability shall not apply to liability for death or \*  
 \* personal injury resulting from such party's negligence to the \*  
 \* extent applicable law prohibits such limitation. Some \*  
 \* jurisdictions do not allow the exclusion or limitation of \*  
 \* incidental or consequential damages, so this exclusion and \*  
 \* limitation may not apply to You. \*  
 \* \*

\*\*\*\*\*

8. Litigation  
 -----

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal

place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

-----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

-----

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice



-----  
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice  
-----

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

Copyright (c) 2013 - 2014

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the {organization} nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013, Space Monkey, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of

this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011-2013, 'pq' Contributors

Portions Copyright (C) 2011 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

Copyright (c) 2012, Sean Treadway, SoundCloud Ltd.

All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this  
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this  
list of conditions and the following disclaimer in the documentation and/or  
other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR  
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER  
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,  
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# This source code was written by the Go contributors.

# The master list of contributors is in the main Go distribution,

# visible at <http://tip.golang.org/CONTRIBUTORS>.

Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:

\* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 The bufio Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Copyright (c) 2012 The Redis Go Client Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright 2014-2015 Torkel degaard, Raintank Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing

permissions and limitations under the License.

This software is based on Kibana:

=====

Copyright 2012-2013 Elasticsearch BV

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.324 grizzly-framework 2.3.16

### 1.324.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this

License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically



terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License

## 1.325 grizzly-http 2.3.16

### 1.325.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This

alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.  
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright  
interest in the program `Gnomovision'  
(which makes passes at compilers) written  
by James Hacker.

signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If



this is what you want to do, use the GNU Lesser General Public License instead of this License

# 1.326 grizzly-http-server 2.3.16

## 1.326.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather,

the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the

conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF

ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details  
type `show w'. This is free software, and you are welcome  
to redistribute it under certain conditions; type `show c'  
for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright  
interest in the program `Gnomovision'  
(which makes passes at compilers) written  
by James Hacker.

signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License

## 1.327 groovy-all 1.8.6

### 1.327.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form,

including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- You must give any other recipients of the Work or Derivative Works a copy of this License; and
- You must cause any modified files to carry prominent notices stating that You changed the files; and
- You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work



To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.328 gtk2 2.24.23

### 1.328.1 Available under license :

This work may be reproduced and distributed in whole or in part, in any medium, physical or electronic, so as long as this copyright notice remains intact and unchanged on all copies. Commercial redistribution is permitted and encouraged, but you may not redistribute, in whole or in part, under terms more restrictive than those under which you received it. If you redistribute a modified or translated version of this work, you must also make the source code to the modified or translated version available in electronic form without charge. However, mere aggregation as part of a larger work shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain, and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE WORK AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE WORK, EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot



use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

GNU LIBRARY GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some

specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

#### GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of



the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.329 guava 14.0

### 1.329.1 Available under license :

Apache License

Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained



within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.330 guice 3.0

## 1.330.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Google Guice - Core Library  
Copyright 2006-2011 Google, Inc.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

/\*

\* This method was written by Doug Lea with assistance from members of JCP  
\* JSR-166 Expert Group and released to the public domain, as explained at  
\* <http://creativecommons.org/licenses/publicdomain>

\*/

/\*

\* Regarding newSetForMap() and SetFromMap:  
\*  
\* Written by Doug Lea with assistance from members of JCP JSR-166  
\* Expert Group and released to the public domain, as explained at  
\* <http://creativecommons.org/licenses/publicdomain>

\*/

## 1.331 guice-servlet 3.0

### 1.331.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."



"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Google Guice - Extensions - Servlet

Copyright 2006-2011 Google, Inc.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

## 1.332 gulp 3.9.0

### 1.332.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013-2015 Fractal <[contact@wearefractal.com](mailto:contact@wearefractal.com)>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.333 gulp-util 3.0.7

### 1.333.1 Available under license :

Copyright (c) 2014 Fractal <[contact@wearefractal.com](mailto:contact@wearefractal.com)>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.334 gulplog 1.0.0

### 1.334.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Blaine Bublitz, Eric Schoffstall and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.335 Hadoop 2.4.0.2.1.2.1 :472

### 1.335.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.



8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

#### APACHE HADOOP SUBCOMPONENTS:

The Apache Hadoop project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

For the org.apache.hadoop.util.bloom.\* classes:

```
/**
 *
 * Copyright (c) 2005, European Commission project OneLab under contract
 * 034819 (http://www.one-lab.org)
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or
 * without modification, are permitted provided that the following
 * conditions are met:
 * - Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the distribution.
 * - Neither the name of the University Catholique de Louvain - UCL
 * nor the names of its contributors may be used to endorse or
 * promote products derived from this software without specific prior
 * written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 * COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
 * BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 * CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
 * ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

```
/**
 * Copyright 2008,2009,2010 Massachusetts Institute of Technology.
 * All rights reserved. Use of this source code is governed by a
 * BSD-style license that can be found in the LICENSE file.
 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,  
lz4\_encoder.h,lz4hc.h,lz4hc.c,lz4hc\_encoder.h},

```
/*
LZ4 - Fast LZ compression algorithm
Header File
Copyright (C) 2011-2013, Yann Collet.
BSD 2-Clause License (http://www.opensource.org/licenses/bsd-license.php)
```

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:

- \* Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above  
copyright notice, this list of conditions and the following disclaimer  
in the documentation and/or other materials provided with the  
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You can contact the author at :

- LZ4 homepage : <http://fastcompression.blogspot.com/p/lz4.html>
- LZ4 source repository : <http://code.google.com/p/lz4/>

```
*/
This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
```

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

1. You must give any other recipients of the Work or Derivative Works a copy of this License; and
2. You must cause any modified files to carry prominent notices stating that You changed the files; and
3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
4. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work

(and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and



may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## APACHE HADOOP SUBCOMPONENTS:

The Apache Hadoop project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

For the org.apache.hadoop.util.bloom.\* classes:

```
/**
 *
 * Copyright (c) 2005, European Commission project OneLab under contract
 * 034819 (http://www.one-lab.org)
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or
 * without modification, are permitted provided that the following
```

- \* conditions are met:
- \* - Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* - Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* - Neither the name of the University Catholique de Louvain - UCL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
- \*
- \* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- \*/

The binary distribution of this product bundles binaries of leveldbjni (<https://github.com/fusesource/leveldbjni>), which is available under the following license:

Copyright (c) 2011 FuseSource Corp. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of FuseSource Corp. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The binary distribution of this product bundles binaries of leveldb (<http://code.google.com/p/leveldb/>), which is available under the following license:

Copyright (c) 2011 The LevelDB Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The binary distribution of this product bundles binaries of snappy (<http://code.google.com/p/snappy/>), which is available under the following license:

Copyright 2011, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

The binary distribution of this product bundles binaries of org.iq80.leveldb:leveldb-api (<https://github.com/dain/leveldb>), which has the following notices:

- \* Copyright 2011 Dain Sundstrom <[dain@iq80.com](mailto:dain@iq80.com)>

- \* Copyright 2011 FuseSource Corp. <http://fusesource.com>

The binary distribution of this product bundles binaries of org.fusesource.hawtjni:hawtjni-runtime (<https://github.com/fusesource/hawtjni>), which has the following notices:

- \* This product includes software developed by FuseSource Corp.

<http://fusesource.com>

- \* This product includes software developed at Progress Software Corporation and/or its subsidiaries or affiliates.

- \* This product includes software developed by IBM Corporation and others.

Copyright (c) 2013, Michael Bostock

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and



may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## APACHE HADOOP SUBCOMPONENTS:

The Apache Hadoop project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

For the org.apache.hadoop.util.bloom.\* classes:

```
/**
 *
 * Copyright (c) 2005, European Commission project OneLab under contract
 * 034819 (http://www.one-lab.org)
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or
 * without modification, are permitted provided that the following
```

\* conditions are met:  
\* - Redistributions of source code must retain the above copyright  
\* notice, this list of conditions and the following disclaimer.  
\* - Redistributions in binary form must reproduce the above copyright  
\* notice, this list of conditions and the following disclaimer in  
\* the documentation and/or other materials provided with the distribution.  
\* - Neither the name of the University Catholique de Louvain - UCL  
\* nor the names of its contributors may be used to endorse or  
\* promote products derived from this software without specific prior  
\* written permission.  
\*  
\* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
\* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
\* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS  
\* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE  
\* COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,  
\* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,  
\* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
\* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER  
\* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN  
\* ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
\* POSSIBILITY OF SUCH DAMAGE.  
\*/

For src/main/native/util/tree.h:

/\*-  
\* Copyright 2002 Niels Provos <provos@citi.umich.edu>  
\* All rights reserved.  
\*  
\* Redistribution and use in source and binary forms, with or without  
\* modification, are permitted provided that the following conditions  
\* are met:  
\* 1. Redistributions of source code must retain the above copyright  
\* notice, this list of conditions and the following disclaimer.  
\* 2. Redistributions in binary form must reproduce the above copyright  
\* notice, this list of conditions and the following disclaimer in the  
\* documentation and/or other materials provided with the distribution.  
\*  
\* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR  
\* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES  
\* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  
\* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,  
\* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
\* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
\* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
\* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

\* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF  
\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
\*/

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

#### APACHE HADOOP SUBCOMPONENTS:

The Apache Hadoop project contains subcomponents with separate copyright  
notices and license terms. Your use of the source code for the these  
subcomponents is subject to the terms and conditions of the following  
licenses.

For the org.apache.hadoop.util.bloom.\* classes:

```
/**
 *
 * Copyright (c) 2005, European Commission project OneLab under contract
 * 034819 (http://www.one-lab.org)
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or
 * without modification, are permitted provided that the following
 * conditions are met:
 * - Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the distribution.
 * - Neither the name of the University Catholique de Louvain - UCL
 * nor the names of its contributors may be used to endorse or
 * promote products derived from this software without specific prior
 * written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 * COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
```



- \* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
  - \* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  - \* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  - \* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
  - \* ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  - \* POSSIBILITY OF SUCH DAMAGE.
- \*/

## 1.336 hamcrest-core 1.3

### 1.336.1 Available under license :

Navigation

- About the OSI
- The Open Source Definition
- Open Source Licenses
- Working Groups
- FAQ
- Trademark and Logo Usage
- Open Standards
- Open Source Education
- Mailing lists
- Getting Help
- Donate to the OSI
- OSI Individual Membership
- OSI Store
- OSI Affiliate Membership
- Contact OSI
- Terms of Service
- OSI Corporate Support

You are here

Home

The BSD 3-Clause License

[OSI Approved License]

The BSD 3-Clause License

The following is a BSD 3-Clause ("BSD New" or "BSD Simplified") license template. To generate your own license, change the values of OWNER, ORGANIZATION and YEAR from their original values as given here, and substitute your own.

Note: You may omit clause 3 and still be OSD-conformant. Despite its colloquial name "BSD New", this is not the newest version of the BSD license; it was followed by the even newer BSD-2-Clause version, sometimes known as the "Simplified BSD License". On January 9th, 2008 the OSI Board approved BSD-2-Clause, which is used by FreeBSD and others. It omits the final "no-endorsement" clause and is thus roughly equivalent to the MIT License.

Historical Background: The original license used on BSD Unix had four clauses. The advertising clause (the third of four clauses) required you to acknowledge use of U.C. Berkeley code in your advertising of any product using that code. It was officially rescinded by the Director of the Office of Technology Licensing of the University of California on July 22nd, 1999. He states that clause 3 is "hereby deleted in its entirety." The four clause license has not been approved by OSI. The license below does not contain the advertising clause.

This prelude is not part of the license.

<OWNER> = Regents of the University of California  
<ORGANIZATION> = University of California, Berkeley  
<YEAR> = 1998

In the original BSD license, the occurrence of "copyright holder" in the 3rd clause read "ORGANIZATION", placeholder for "University of California". In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.337 HAPROXY 1.5.14

## 1.337.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,  
not price. Our General Public Licenses are designed to make sure that  
you have the freedom to distribute copies of free software (and charge  
for this service if you wish); that you receive source code or can get  
it if you want it; that you can change the software and use pieces of  
it in new free programs; and that you are informed that you can do  
these things.

To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
rights. These restrictions translate to certain responsibilities for  
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis  
or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link other code with the library, you must provide  
complete object files to the recipients, so that they can relink them

with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:



a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is

copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!  
HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I \*want\* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

Of course, users are strongly encouraged to continue the work under GPL as long as possible, since this license has allowed useful enhancements, contributions and fixes from talented people around the world.

Due to the incompatibility between the GPL and the OpenSSL licence, you must apply the GPL/LGPL licence with the following exception:

This program is released under the GPL with the additional exemption that compiling, linking, and/or using OpenSSL is allowed.

The text of the licenses lies in the "doc" directory. All the files provided in this package are covered by the GPL unless expressly stated otherwise in them. Every patch or contribution provided by external people will by default comply with the license of the files it affects, or be rejected.

Willy Tarreau - w@lwt.eu

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate

copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program



with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such

parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING

OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 1.338 har-validator 1.8.0

### 1.338.1 Available under license :

Copyright (c) 2015, Ahmad Nassri <ahmad@ahmadnassri.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.339 har-validator 1.8.0

### 1.339.1 Available under license :

```
HAR Validator [![version][npm-version]][npm-url] [![License][npm-license]][license-url]
```

Extremely fast HTTP Archive ([HAR](http://www.softwareishard.com/blog/har-12-spec/)) validator using JSON Schema.

```
[![Build Status][travis-image]][travis-url]
```

[![Downloads][npm-downloads]][npm-url]  
[![Code Climate][codeclimate-quality]][codeclimate-url]  
[![Coverage Status][codeclimate-coverage]][codeclimate-url]  
[![Dependencies][david-image]][david-url]

## ## Install

```
```shell
# to use in cli
npm install --global har-validator
```

```
# to use as a module
npm install --save har-validator
```
```

## ## Usage

...

Usage: har-validator [options] <files ...>

### Options:

- h, --help output usage information
- V, --version output the version number
- s, --schema [name] validate schema name (log, request, response, etc ...)

...

## ##### Example

```
```shell
har-validator har.json

har-validator --schema request request.json
```
```

## ## API

### ### Validate(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*  
a full [HAR](<http://www.softwareishard.com/blog/har-12-spec/>) object

- **callback**: `Function`  
gets two arguments (err, valid)

```

```js
var HAR = require('./har.json');
var validate = require('har-validator');

validate(HAR, function (e, valid) {
  if (e) console.log(e.errors)

  if (valid) console.log('horray!');
});
```

```

### Validate.log(data [, callback])

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*  
a [log](http://www.softwareishard.com/blog/har-12-spec/#log) object
- **\*\*callback\*\***: `Function`  
gets two arguments (err, valid)

```

```js
var validate = require('har-validator');

validate.log(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

```

### Validate.cache(data [, callback])

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*  
a [cache](http://www.softwareishard.com/blog/har-12-spec/#cache) object
- **\*\*callback\*\***: `Function`  
gets two arguments (err, valid)

```

```js
var validate = require('har-validator');

validate.cache(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

```

```
Validate.cacheEntry(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a ["beforeRequest" or "afterRequest"](<http://www.softwareishard.com/blog/har-12-spec/#cache>) objects

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.cacheEntry(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

```
```
```

```
Validate.content(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [content](<http://www.softwareishard.com/blog/har-12-spec/#content>) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.content(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

```
```
```

```
Validate.cookie(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [cookie](<http://www.softwareishard.com/blog/har-12-spec/#cookies>) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```



```
validate.cookie(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
```

```
Validate.creator(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [creator](http://www.softwareishard.com/blog/har-12-spec/#creator) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.creator(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
```

```
Validate.entry(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

an [entry](http://www.softwareishard.com/blog/har-12-spec/#entries) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.entry(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
```

```
Validate.log(data [, callback])
```

alias of [Validate(data [, callback])](#validate-data-callback-)

```
Validate.page(data [, callback])
```

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*  
a [page](http://www.softwareishard.com/blog/har-12-spec/#pages) object

- **\*\*callback\*\***: `Function`  
gets two arguments (err, valid)

```
```js
var validate = require('har-validator');
```

```
validate.page(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
```

```
Validate.pageTimings(data [, callback])
```

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*  
a [pageTimings](http://www.softwareishard.com/blog/har-12-spec/#pageTimings) object

- **\*\*callback\*\***: `Function`  
gets two arguments (err, valid)

```
```js
var validate = require('har-validator');
```

```
validate.pageTimings(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
```

```
Validate.postData(data [, callback])
```

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*  
a [postData](http://www.softwareishard.com/blog/har-12-spec/#postData) object

- **\*\*callback\*\***: `Function`  
gets two arguments (err, valid)

```
```js
var validate = require('har-validator');
```

```
validate.postData(data, function (e, valid) {
```

```
if (e) console.log(e.errors)
});
...

```

```
### Validate.record(data [, callback])
```

Returns `true` or `false`.

- ****data****: `Object` *(Required)*

a [record](http://www.softwareishard.com/blog/har-12-spec/#headers) object

- ****callback****: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.record(data, function (e, valid) {
```

```
if (e) console.log(e.errors)
```

```
});
```

```
...

```

```
Validate.request(data [, callback])
```

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*

a [request](http://www.softwareishard.com/blog/har-12-spec/#request) object

- **\*\*callback\*\***: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.request(data, function (e, valid) {
```

```
if (e) console.log(e.errors)
```

```
});
```

```
...

```

```
### Validate.response(data [, callback])
```

Returns `true` or `false`.

- ****data****: `Object` *(Required)*

a [response](http://www.softwareishard.com/blog/har-12-spec/#response) object

- ****callback****: `Function`

gets two arguments (err, valid)

```
```js
var validate = require('har-validator');

validate.cacheEntry(data, function (e, valid) {
 if (e) console.log(e.errors)
});
```
```

Validate.timings(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
a [timings](http://www.softwareishard.com/blog/har-12-spec/#timings) object

- **callback**: `Function`
gets two arguments (err, valid)

```
```js
var validate = require('har-validator');

validate.timings(data, function (e, valid) {
 if (e) console.log(e.errors)
});
```
```

Support

Donations are welcome to help support the continuous development of this project.

[!Gratipay][gratipay-image]][gratipay-url]
[!PayPal][paypal-image]][paypal-url]
[!Flattr][flattr-image]][flattr-url]
[!Bitcoin][bitcoin-image]][bitcoin-url]

License

[ISC License](LICENSE) © [Ahmad Nassri](https://www.ahmadnassri.com/)

[license-url]: https://github.com/ahmadnassri/har-validator/blob/master/LICENSE

[travis-url]: https://travis-ci.org/ahmadnassri/har-validator

[travis-image]: https://img.shields.io/travis/ahmadnassri/har-validator.svg?style=flat-square

[npm-url]: https://www.npmjs.com/package/har-validator

[npm-license]: https://img.shields.io/npm/l/har-validator.svg?style=flat-square

[npm-version]: <https://img.shields.io/npm/v/har-validator.svg?style=flat-square>
[npm-downloads]: <https://img.shields.io/npm/dm/har-validator.svg?style=flat-square>

[codeclimate-url]: <https://codeclimate.com/github/ahmadnassri/har-validator>
[codeclimate-quality]: <https://img.shields.io/codeclimate/github/ahmadnassri/har-validator.svg?style=flat-square>
[codeclimate-coverage]: <https://img.shields.io/codeclimate/coverage/github/ahmadnassri/har-validator.svg?style=flat-square>

[david-url]: <https://david-dm.org/ahmadnassri/har-validator>
[david-image]: <https://img.shields.io/david/ahmadnassri/har-validator.svg?style=flat-square>

[gratipay-url]: <https://www.gratipay.com/ahmadnassri/>
[gratipay-image]: <https://img.shields.io/gratipay/ahmadnassri.svg?style=flat-square>

[paypal-url]: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=UJ2B2BTK9VLR&on0=project&os0=har-validator
[paypal-image]: <http://img.shields.io/badge/paypal-donate-green.svg?style=flat-square>

[flattr-url]: https://flattr.com/submit/auto?user_id=ahmadnassri&url=https://github.com/ahmadnassri/har-validator&title=har-validator&language=&tags=github&category=software
[flattr-image]: <http://img.shields.io/badge/flattr-donate-green.svg?style=flat-square>

[bitcoin-image]: <http://img.shields.io/badge/bitcoin-1Nb46sZRVG3or7pNaDjthcGJpWhvoPpCxy-green.svg?style=flat-square>
[bitcoin-url]: <https://www.coinbase.com/checkouts/ae383ae6bb931a2fa5ad11cec115191e?name=har-validator>

1.340 has-ansi 2.0.0

1.340.1 Available under license :

has-ansi [\[Build Status\]\(https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master\)](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master) (<https://travis-ci.org/sindresorhus/has-ansi>)

> Check if a string has [\[ANSI escape codes\]\(http://en.wikipedia.org/wiki/ANSI_escape_code\)](http://en.wikipedia.org/wiki/ANSI_escape_code)

```
## Install
```

```
...
```

```
$ npm install --save has-ansi
```

```
...
```

```
## Usage
```

```
```js
```

```
var hasAnsi = require('has-ansi');
```

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

```
...
```

## ## Related

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

## ## License

MIT Â© [Sindre Sorhus](http://sindresorhus.com)

# 1.341 has-gulplog 0.1.0

## 1.341.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 gulp

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.342 has-unicode 1.0.0

## 1.342.1 Available under license :

Copyright (c) 2014, Rebecca Turner <me@re-becca.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.343 hashie 3.4.3

## 1.343.1 Available under license :

Copyright (c) 2009 Intridea, Inc., and Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.344 hawk 2.3.1

## 1.344.1 Available under license :

Copyright (c) 2012-2014, Eran Hammer and other contributors.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/hawk/graphs/contributors>

## 1.345 hawk 3.1.0

### 1.345.1 Available under license :

Copyright (c) 2012-2014, Eran Hammer and other contributors.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.



permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/hawk/graphs/contributors>

## 1.346 hawk 1.0.0

### 1.346.1 Available under license :

Copyright (c) 2012-2013, Eran Hammer.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Eran Hammer nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ERAN HAMMER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.347 hbase 0.99.1234 :1

## 1.347.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

This product includes software developed by The Apache Software  
Foundation (<http://www.apache.org/>).

In addition, this product includes software developed by:

Jamon (<http://www.jamon.org/>) is a text template engine for Java used by our  
UI. It uses the Mozilla Public License (<http://www.mozilla.org/MPL/>)  
See the tail of <http://www.jamon.org/About.html>

JUnit (<http://www.junit.org/>) included under the Common Public License v1.0. See  
the full text here: <http://junit.sourceforge.net/cpl-v10.html>

JRuby (<http://jruby.org/>) is tri-licensed. We include it under terms of the  
Common Public License v1.0.

JRuby itself includes libraries variously licensed. See its COPYING document  
for details: <https://github.com/jruby/jruby/blob/master/COPYING>

The JRuby community went out of their way to make JRuby compatible with Apache  
projects: See <https://issues.apache.org/jira/browse/HBASE-3374>)

## 1.348 hdparm 9.43

### 1.348.1 Available under license :

BSD-Style Open Source License:

You may freely use, modify, and redistribute the hdparm program,  
as either binary or source, or both.

The only condition is that my name and copyright notice  
remain in the source code as-is.

Mark Lord ([mlord@pobox.com](mailto:mlord@pobox.com))

This package was debianized by Christopher L Cheney <ccheney@debian.org> on  
Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from <http://www.ibiblio.org/pub/Linux/system/hardware>

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

```
/* hdparm.c - Command line interface to get/set hard disk parameters */
/* - by Mark Lord 1994-2008 -- freely distributable */
```

You are free to distribute this software under the terms of the BSD License.  
On Debian systems, the complete text of the BSD License can be found in  
</usr/share/common-licenses/BSD>

## GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
License is intended to guarantee your freedom to share and change free  
software--to make sure the software is free for all its users. This  
General Public License applies to most of the Free Software  
Foundation's software and to any other program whose authors commit to  
using it. (Some other Free Software Foundation software is covered by  
the GNU Library General Public License instead.) You can apply it to  
your programs, too.

When we speak of free software, we are referring to freedom, not  
price. Our General Public Licenses are designed to make sure that you  
have the freedom to distribute copies of free software (and charge for  
this service if you wish), that you receive source code or can get it  
if you want it, that you can change the software or use pieces of it  
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid  
anyone to deny you these rights or to ask you to surrender the rights.  
These restrictions translate to certain responsibilities for you if you  
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you



conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## 1.349 Hibernate Validator Engine 5.1.3.Final

### 1.349.1 Available under license :

Apache License, Version 2.0  
<http://www.apache.org/licenses/LICENSE-2.0.txt>

## 1.350 hike 1.2.3

### 1.350.1 Available under license :

Copyright (c) 2011 Sam Stephenson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.351 hk2-api 2.4.0-b09

### 1.351.1 Available under license :

CDDL + GPLv2 with classpath exception

[https://glassfish.java.net/nonav/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html)

A business-friendly OSS license

## 1.352 hk2-locator 2.4.0-b09

### 1.352.1 Available under license :

CDDL + GPLv2 with classpath exception

[https://glassfish.java.net/nonav/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html)

A business-friendly OSS license

## 1.353 hk2-utils 2.4.0-b09

### 1.353.1 Available under license :

CDDL + GPLv2 with classpath exception

[https://glassfish.java.net/nonav/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html)

A business-friendly OSS license

## 1.354 hoek 2.16.3

### 1.354.1 Available under license :

Copyright (c) 2011-2014, Walmart and other contributors.

Copyright (c) 2011, Yahoo Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY

DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/hapi/graphs/contributors>  
Portions of this project were initially based on the Yahoo! Inc. Postmile project, published at <https://github.com/yahoo/postmile>.

## 1.355 hoek 0.9.1

### 1.355.1 Available under license :

Copyright (c) 2011-2013, Walmart.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Walmart nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL WALMART BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



\* \* \*

Portions of this project were initially based on Postmile, Copyright (c) 2011, Yahoo Inc.  
Postmile is published at <https://github.com/yahoo/postmile> and its licensing terms are  
published at <https://github.com/yahoo/postmile/blob/master/LICENSE>.

# 1.356 hoek 2.14.0

## 1.356.1 Available under license :

Copyright (c) 2011-2014, Walmart and other contributors.

Copyright (c) 2011, Yahoo Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote  
products derived from this software without specific prior written  
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE  
FOR ANY  
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND  
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/hapi/graphs/contributors>  
Portions of this project were initially based on the Yahoo! Inc. Postmile project,  
published at <https://github.com/yahoo/postmile>.

# 1.357 hosted-git-info 2.1.4

## 1.357.1 Available under license :

Copyright (c) 2015, Rebecca Turner

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.358 http-cookie 1.0.2

## 1.358.1 Available under license :

Copyright (c) 2013 Akinori MUSHA

Copyright (c) 2011-2012 Akinori MUSHA, Eric Hodel

Copyright (c) 2006-2011 Aaron Patterson, Mike Dalessio

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.359 http-errors 1.3.1

## 1.359.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong [me@jongleberry.com](mailto:me@jongleberry.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.360 http-server 0.6.1

## 1.360.1 Available under license :

Copyright (c) 2011 Nodejitsu <http://github.com/nodejitsu/http-server/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.361 http-signature 0.10.1

### 1.361.1 Available under license :

Copyright Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.362 http-signature 0.11.0

### 1.362.1 Available under license :

Copyright Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.363 httpasyncclient 4.0.2

## 1.363.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls.  
See <http://www.jcip.net> and the Creative Commons Attribution License  
(<http://creativecommons.org/licenses/by/2.5>)  
Apache HttpComponents Client - \${project.name}  
Copyright 1999-2010 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).



# 1.364 HttpCore 4.3.2

## 1.364.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====

This project contains annotations in the package org.apache.http.annotation which are derived from JCIP-ANNOTATIONS

Copyright (c) 2005 Brian Goetz and Tim Peierls.

See <http://www.jcip.net> and the Creative Commons Attribution License

(<http://creativecommons.org/licenses/by/2.5>)

Full text: <http://creativecommons.org/licenses/by/2.5/legalcode>

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

## 1. Definitions

"Collective Work" means a work, such as a periodical issue, anthology or encyclopedia, in which the Work in its entirety in unmodified form, along with a number of other contributions, constituting separate and independent works in themselves, are assembled into a collective whole. A work that constitutes a Collective Work will not be considered a Derivative Work (as defined below) for the purposes of this License.

"Derivative Work" means a work based upon the Work or upon the Work and other pre-existing works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which the Work may be recast, transformed, or adapted, except that a work that constitutes a Collective Work will not be considered a Derivative Work for the purpose of this License. For the avoidance of doubt, where the Work is a musical composition or sound recording, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered a Derivative Work for the purpose of this License.

"Licensor" means the individual or entity that offers the Work under the terms of this License.

"Original Author" means the individual or entity who created the Work.

"Work" means the copyrightable work of authorship offered under the terms of this License.

"You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

2. Fair Use Rights. Nothing in this license is intended to reduce, limit, or restrict any rights arising from fair use, first sale or other limitations on the exclusive rights of the copyright owner under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

to reproduce the Work, to incorporate the Work into one or more Collective Works, and to reproduce the Work as incorporated in the Collective Works;

to create and reproduce Derivative Works;

to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission the Work including as incorporated in Collective Works;

to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission Derivative Works.

For the avoidance of doubt, where the work is a musical composition:

**Performance Royalties Under Blanket Licenses.** Licensor waives the exclusive right to collect, whether individually or via a performance rights society (e.g. ASCAP, BMI, SESAC), royalties for the public performance or public digital performance (e.g. webcast) of the Work.

**Mechanical Rights and Statutory Royalties.** Licensor waives the exclusive right to collect, whether individually or via a music rights agency or designated agent (e.g. Harry Fox Agency), royalties for any phonorecord You create from the Work ("cover version") and distribute, subject to the compulsory license created by 17 USC Section 115 of the US Copyright Act (or the equivalent in other jurisdictions).

**Webcasting Rights and Statutory Royalties.** For the avoidance of doubt, where the Work is a sound recording, Licensor waives the exclusive right to collect, whether individually or via a performance-rights society (e.g. SoundExchange), royalties for the public digital performance (e.g. webcast) of the Work, subject to the compulsory license created by 17 USC Section 114 of the US Copyright Act (or the equivalent in other jurisdictions).

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. All rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

You may distribute, publicly display, publicly perform, or publicly digitally perform the Work only under the terms of this License, and You must include a copy of, or the Uniform Resource Identifier for, this License with every copy or phonorecord of the Work You distribute, publicly display, publicly perform, or publicly digitally perform. You may not offer or impose any terms on the Work that alter or restrict the terms of this License or the recipients' exercise of the rights granted hereunder. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties. You may not distribute, publicly display, publicly perform, or publicly digitally perform the Work with any technological measures that control access or use of the Work in a manner inconsistent with the terms of this License Agreement. The above applies to the Work as incorporated in a Collective Work, but this does not require the Collective Work apart from the Work itself to be made subject to the terms of this License. If You create a Collective Work, upon notice from any Licensor You must, to the extent practicable, remove from the Collective Work any credit as required by clause 4(b), as requested. If You create a Derivative Work, upon notice from any Licensor You must, to the extent practicable, remove from the Derivative Work any credit as required by clause 4(b), as requested.

If you distribute, publicly display, publicly perform, or publicly digitally perform the Work or any Derivative Works or Collective Works, You must keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or (ii) if the Original Author and/or Licensor designate another party or parties (e.g. a sponsor institute, publishing entity, journal) for attribution in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; the title of the Work if supplied; to the extent reasonably practicable, the Uniform Resource Identifier, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and in the case of a Derivative Work, a credit identifying the use of the Work in the Derivative Work (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). Such credit may be implemented in any reasonable manner; provided, however, that in the case of a Derivative Work or Collective Work, at a minimum such credit will appear where any other comparable authorship credit appears and in a manner at least as prominent as such other comparable authorship credit.

## 5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. Termination

This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Derivative Works or Collective Works from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

## 8. Miscellaneous

Each time You distribute or publicly digitally perform the Work or a Collective Work, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

Each time You distribute or publicly digitally perform a Derivative Work, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

Apache HttpComponents Core

Copyright 2005-2014 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

=====

This project contains annotations in the package `org.apache.http.annotation`  
which are derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls.  
See <http://www.jcip.net> and the Creative Commons Attribution License  
(<http://creativecommons.org/licenses/by/2.5>)  
Full text: <http://creativecommons.org/licenses/by/2.5/legalcode>

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS  
PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR  
OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS  
LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE  
BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED  
HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

## 1. Definitions

"Collective Work" means a work, such as a periodical issue, anthology or encyclopedia, in which the Work in its  
entirety in unmodified form, along with a number of other contributions, constituting separate and independent  
works in themselves, are assembled into a collective whole. A work that constitutes a Collective Work will not be  
considered a Derivative Work (as defined below) for the purposes of this License.

"Derivative Work" means a work based upon the Work or upon the Work and other pre-existing works, such as a  
translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art  
reproduction, abridgment, condensation, or any other form in which the Work may be recast, transformed, or  
adapted, except that a work that constitutes a Collective Work will not be considered a Derivative Work for the  
purpose of this License. For the avoidance of doubt, where the Work is a musical composition or sound recording,  
the synchronization of the Work in timed-relation with a moving image ("synching") will be considered a Derivative  
Work for the purpose of this License.

"Licensor" means the individual or entity that offers the Work under the terms of this License.

"Original Author" means the individual or entity who created the Work.

"Work" means the copyrightable work of authorship offered under the terms of this License.

"You" means an individual or entity exercising rights under this License who has not previously violated the terms  
of this License with respect to the Work, or who has received express permission from the Licensor to exercise  
rights under this License despite a previous violation.

2. Fair Use Rights. Nothing in this license is intended to reduce, limit, or restrict any rights arising from fair use,  
first sale or other limitations on the exclusive rights of the copyright owner under copyright law or other applicable  
laws.



3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

to reproduce the Work, to incorporate the Work into one or more Collective Works, and to reproduce the Work as incorporated in the Collective Works;

to create and reproduce Derivative Works;

to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission the Work including as incorporated in Collective Works;

to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission Derivative Works.

For the avoidance of doubt, where the work is a musical composition:

**Performance Royalties Under Blanket Licenses.** Licensor waives the exclusive right to collect, whether individually or via a performance rights society (e.g. ASCAP, BMI, SESAC), royalties for the public performance or public digital performance (e.g. webcast) of the Work.

**Mechanical Rights and Statutory Royalties.** Licensor waives the exclusive right to collect, whether individually or via a music rights agency or designated agent (e.g. Harry Fox Agency), royalties for any phonorecord You create from the Work ("cover version") and distribute, subject to the compulsory license created by 17 USC Section 115 of the US Copyright Act (or the equivalent in other jurisdictions).

**Webcasting Rights and Statutory Royalties.** For the avoidance of doubt, where the Work is a sound recording, Licensor waives the exclusive right to collect, whether individually or via a performance-rights society (e.g. SoundExchange), royalties for the public digital performance (e.g. webcast) of the Work, subject to the compulsory license created by 17 USC Section 114 of the US Copyright Act (or the equivalent in other jurisdictions).

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. All rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

You may distribute, publicly display, publicly perform, or publicly digitally perform the Work only under the terms of this License, and You must include a copy of, or the Uniform Resource Identifier for, this License with every copy or phonorecord of the Work You distribute, publicly display, publicly perform, or publicly digitally perform. You may not offer or impose any terms on the Work that alter or restrict the terms of this License or the recipients' exercise of the rights granted hereunder. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties. You may not distribute, publicly display, publicly perform, or publicly digitally perform the Work with any technological measures that control access or use of the Work in a manner inconsistent with the terms of this License Agreement. The above applies to the Work as incorporated in a Collective Work, but this does not require the Collective Work apart from the Work itself to be made subject to the terms of this License. If You create a Collective Work, upon notice from any Licensor You must, to the extent practicable, remove from the Collective Work any credit as required by clause 4(b), as requested. If You create a Derivative Work, upon notice from any Licensor You must, to the extent practicable, remove from the Derivative Work any credit as required by clause 4(b), as requested.

If you distribute, publicly display, publicly perform, or publicly digitally perform the Work or any Derivative Works or Collective Works, You must keep intact all copyright notices for the Work and provide, reasonable to the

medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or (ii) if the Original Author and/or Licensor designate another party or parties (e.g. a sponsor institute, publishing entity, journal) for attribution in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; the title of the Work if supplied; to the extent reasonably practicable, the Uniform Resource Identifier, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and in the case of a Derivative Work, a credit identifying the use of the Work in the Derivative Work (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). Such credit may be implemented in any reasonable manner; provided, however, that in the case of a Derivative Work or Collective Work, at a minimum such credit will appear where any other comparable authorship credit appears and in a manner at least as prominent as such other comparable authorship credit.

#### 5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 7. Termination

This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Derivative Works or Collective Works from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

#### 8. Miscellaneous

Each time You distribute or publicly digitally perform the Work or a Collective Work, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

Each time You distribute or publicly digitally perform a Derivative Work, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or

enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

# 1.365 HttpCore 4.3.2 :1

## 1.365.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====

This project contains annotations in the package org.apache.http.annotation which are derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls.  
See <http://www.jcip.net> and the Creative Commons Attribution License (<http://creativecommons.org/licenses/by/2.5>)  
Full text: <http://creativecommons.org/licenses/by/2.5/legalcode>

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

"Collective Work" means a work, such as a periodical issue, anthology or encyclopedia, in which the Work in its entirety in unmodified form, along with a number of other contributions, constituting separate and independent works in themselves, are assembled into a collective whole. A work that constitutes a Collective Work will not be considered a Derivative Work (as defined below) for the purposes of this License.

"Derivative Work" means a work based upon the Work or upon the Work and other pre-existing works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which the Work may be recast, transformed, or adapted, except that a work that constitutes a Collective Work will not be considered a Derivative Work for the purpose of this License. For the avoidance of doubt, where the Work is a musical composition or sound recording, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered a Derivative Work for the purpose of this License.

"Licensor" means the individual or entity that offers the Work under the terms of this License.

"Original Author" means the individual or entity who created the Work.

"Work" means the copyrightable work of authorship offered under the terms of this License.

"You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

2. Fair Use Rights. Nothing in this license is intended to reduce, limit, or restrict any rights arising from fair use, first sale or other limitations on the exclusive rights of the copyright owner under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

to reproduce the Work, to incorporate the Work into one or more Collective Works, and to reproduce the Work as incorporated in the Collective Works;

to create and reproduce Derivative Works;

to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission the Work including as incorporated in Collective Works;

to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission Derivative Works.

For the avoidance of doubt, where the work is a musical composition:

Performance Royalties Under Blanket Licenses. Licensor waives the exclusive right to collect, whether individually or via a performance rights society (e.g. ASCAP, BMI, SESAC), royalties for the public performance or public digital performance (e.g. webcast) of the Work.

Mechanical Rights and Statutory Royalties. Licensor waives the exclusive right to collect, whether individually or via a music rights agency or designated agent (e.g. Harry Fox Agency), royalties for any phonorecord You create from the Work ("cover version") and distribute, subject to the compulsory license created by 17 USC Section 115 of the US Copyright Act (or the equivalent in other jurisdictions).

Webcasting Rights and Statutory Royalties. For the avoidance of doubt, where the Work is a sound recording, Licensor waives the exclusive right to collect, whether individually or via a performance-rights society (e.g. SoundExchange), royalties for the public digital performance (e.g. webcast) of the Work, subject to the compulsory license created by 17 USC Section 114 of the US Copyright Act (or the equivalent in other jurisdictions).

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above



rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. All rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

You may distribute, publicly display, publicly perform, or publicly digitally perform the Work only under the terms of this License, and You must include a copy of, or the Uniform Resource Identifier for, this License with every copy or phonorecord of the Work You distribute, publicly display, publicly perform, or publicly digitally perform. You may not offer or impose any terms on the Work that alter or restrict the terms of this License or the recipients' exercise of the rights granted hereunder. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties. You may not distribute, publicly display, publicly perform, or publicly digitally perform the Work with any technological measures that control access or use of the Work in a manner inconsistent with the terms of this License Agreement. The above applies to the Work as incorporated in a Collective Work, but this does not require the Collective Work apart from the Work itself to be made subject to the terms of this License. If You create a Collective Work, upon notice from any Licensor You must, to the extent practicable, remove from the Collective Work any credit as required by clause 4(b), as requested. If You create a Derivative Work, upon notice from any Licensor You must, to the extent practicable, remove from the Derivative Work any credit as required by clause 4(b), as requested.

If you distribute, publicly display, publicly perform, or publicly digitally perform the Work or any Derivative Works or Collective Works, You must keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or (ii) if the Original Author and/or Licensor designate another party or parties (e.g. a sponsor institute, publishing entity, journal) for attribution in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; the title of the Work if supplied; to the extent reasonably practicable, the Uniform Resource Identifier, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and in the case of a Derivative Work, a credit identifying the use of the Work in the Derivative Work (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). Such credit may be implemented in any reasonable manner; provided, however, that in the case of a Derivative Work or Collective Work, at a minimum such credit will appear where any other comparable authorship credit appears and in a manner at least as prominent as such other comparable authorship credit.

5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

## 7. Termination

This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Derivative Works or Collective Works from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

## 8. Miscellaneous

Each time You distribute or publicly digitally perform the Work or a Collective Work, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

Each time You distribute or publicly digitally perform a Derivative Work, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

Apache HttpCore

Copyright 2005-2014 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

# 1.366 httpcore-nio 4.3.2

## 1.366.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache HttpCore NIO  
Copyright 2005-2014 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

# 1.367 httpd-tools 2.2.15 :31.el6.centos

## 1.367.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,



where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## APACHE PORTABLE RUNTIME SUBCOMPONENTS:

The Apache Portable Runtime includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

/\*

\* Copyright (c) 1987, 1993, 1994

\* The Regents of the University of California. All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

- \* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:
  - \* This product includes software developed by the University of California, Berkeley and its contributors.
- \* 4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
- \*
  - \* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

```

/* Copyright (c) 1996 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
* ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
* CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.

```

From dso/aix/dso.c:

```

* Based on libdl (dlfcn.c/dlfcn.h) which is
* Copyright (c) 1992,1993,1995,1996,1997,1988
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
*

```

- \* Not derived from licensed software.
- \*
- \* Permission is granted to freely use, copy, modify, and redistribute
- \* this software, provided that the author is not construed to be liable
- \* for any results of using the software, alterations are clearly marked
- \* as such, and this notice is not modified.

From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

From strings/apr\_snprintf.c:

- \*
- \* cvt - IEEE floating point formatting routines.
- \* Derived from UNIX V7, Copyright(C) Caldera International Inc.
- \*

Copyright(C) Caldera International Inc. 2001-2002. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code and documentation must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed or owned by Caldera International, Inc.

Neither the name of Caldera International, Inc. nor the names of other contributors may be used to endorse or promote products derived from this software without specific prior written permission.

USE OF THE SOFTWARE PROVIDED FOR UNDER THIS LICENSE BY CALDERA INTERNATIONAL, INC. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL CALDERA INTERNATIONAL, INC. BE LIABLE FOR ANY DIRECT, INDIRECT INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache Portable Runtime

Copyright (c) 2009 The Apache Software Foundation.

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

Portions of this software were developed at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security Inc. MD5 Message-Digest Algorithm.

This software contains code derived from UNIX V7, Copyright(C)  
Caldera International Inc.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must



include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

<?xml version="1.0" encoding="ISO-8859-1"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-

```
strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XX
X
```

This file is generated from xml source: DO NOT EDIT

```
XX
X
```

```
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>
<p class="apache">Apache HTTP Server Version 2.2</p>
</div>
<div class="up"></div>
<div id="path">
Apache > HTTP Server > Documentation > Version 2.2</div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="topleng">
<p>Available Languages: en </p>
</div>
```

```
<p class="centered">Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/


```

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION</p>

```

Definitions

```

<p>"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.</p>

<p>"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.</p>

<p>"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.</p>

<p>"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.</p>

<p>"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.</p>

<p>"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.</p>

<p>"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).</p>

<p>"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.</p>

<p>"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."</p>

<p>"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.</p></li>

<li><strong>Grant of Copyright License.</strong> Subject to the terms and conditions of this License, each Contributor hereby grants to You

a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.</li>

<li><strong>Grant of Patent License.</strong> Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.</li>

<li><strong>Redistribution.</strong> You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

<ol class="lo-A">

<li>You must give any other recipients of the Work or Derivative Works a copy of this License; and</li>

<li>You must cause any modified files to carry prominent notices stating that You changed the files; and</li>

<li>You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and</li>

<li>If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

</ol>

<p>You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.</p>

<li><strong>Submission of Contributions.</strong> Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.</li>

<li><strong>Trademarks.</strong> This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.</li>

<li><strong>Disclaimer of Warranty.</strong> Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.</li>

<li><strong>Limitation of Liability.</strong> In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.</li>

<li><strong>Accepting Warranty or Additional Liability.</strong> While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.</li></ol>

<p class="centered">END OF TERMS AND CONDITIONS</p>

<p class="centered">APPENDIX: How to apply the Apache License to your work.</p>

<p>To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.</p>

<div class="example"><pre>Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</pre></div>

</div>

</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>

</div><div id="footer">

<p class="apache">Copyright 2009 The Apache Software Foundation.<br />Licensed under the <a href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>  
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a href="/faq/">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a href="/sitemap.html">Sitemap</a></p></div>  
</body></html>  
Apache HTTP Server  
Copyright 2009 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Portions of this software were developed at the National Center  
for Supercomputing Applications (NCSA) at the University of  
Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security  
Inc. MD5 Message-Digest Algorithm, including various  
modifications by Spyglass Inc., Carnegie Mellon University, and  
Bell Communications Research, Inc (Bellcore).

Regular expression support is provided by the PCRE library package,  
which is open source software, written by Philip Hazel, and copyright  
by the University of Cambridge, England. The original software is  
available from

<ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/>  
Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.



"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

### APACHE HTTP SERVER SUBCOMPONENTS:

The Apache HTTP Server includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

For the mod\_mime\_magic component:

/\*

```

* mod_mime_magic: MIME type lookup via file magic numbers
* Copyright (c) 1996-1997 Cisco Systems, Inc.
*
* This software was submitted by Cisco Systems to the Apache Group in July
* 1997. Future revisions and derivatives of this source code must
* acknowledge Cisco Systems as the original contributor of this module.
* All other licensing and usage conditions are those of the Apache Group.
*
* Some of this code is derived from the free version of the file command
* originally posted to comp.sources.unix. Copyright info for that program
* is included below as required.
* -----
* - Copyright (c) Ian F. Darwin, 1987. Written by Ian F. Darwin.
*
* This software is not subject to any license of the American Telephone and
* Telegraph Company or of the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on any
* computer system, and to alter it and redistribute it freely, subject to
* the following restrictions:
*
* 1. The author is not responsible for the consequences of use of this
* software, no matter how awful, even if they arise from flaws in it.
*
* 2. The origin of this software must not be misrepresented, either by
* explicit claim or by omission. Since few users ever read sources, credits
* must appear in the documentation.
*
* 3. Altered versions must be plainly marked as such, and must not be
* misrepresented as being the original software. Since few users ever read
* sources, credits must appear in the documentation.
*
* 4. This notice may not be removed or altered.
* -----
*/

```

For the modules\mappers\mod\_imagemap.c component:

"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the server\util\_md5.c component:

```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications

```

\* University of Illinois at Urbana-Champaign  
\* 605 E. Springfield, Champaign, IL 61820  
\* httpd@ncsa.uiuc.edu  
\*  
\* Copyright (C) 1995, Board of Trustees of the University of Illinois  
\*  
\*\*\*\*\*  
\*  
\* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code  
\*  
\* Original Code Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.  
\* Portions of Content-MD5 code Copyright (C) 1993, 1994 by Carnegie Mellon  
\* University (see Copyright below).  
\* Portions of Content-MD5 code Copyright (C) 1991 Bell Communications  
\* Research, Inc. (Bellcore) (see Copyright below).  
\* Portions extracted from mpack, John G. Myers - jgm+@cmu.edu  
\* Content-MD5 Code contributed by Martin Hamilton (martin@net.lut.ac.uk)  
\*  
\*/

/\* these portions extracted from mpack, John G. Myers - jgm+@cmu.edu \*/

/\* (C) Copyright 1993,1994 by Carnegie Mellon University

\* All Rights Reserved.

\*

\* Permission to use, copy, modify, distribute, and sell this software  
\* and its documentation for any purpose is hereby granted without  
\* fee, provided that the above copyright notice appear in all copies  
\* and that both that copyright notice and this permission notice  
\* appear in supporting documentation, and that the name of Carnegie  
\* Mellon University not be used in advertising or publicity  
\* pertaining to distribution of the software without specific,  
\* written prior permission. Carnegie Mellon University makes no  
\* representations about the suitability of this software for any  
\* purpose. It is provided "as is" without express or implied  
\* warranty.

\*

\* CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO  
\* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY  
\* AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE  
\* FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES  
\* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN  
\* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING  
\* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS  
\* SOFTWARE.

\*/

/\*

\* Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)  
\*  
\* Permission to use, copy, modify, and distribute this material  
\* for any purpose and without fee is hereby granted, provided  
\* that the above copyright notice and this permission notice  
\* appear in all copies, and that the name of Bellcore not be  
\* used in advertising or publicity pertaining to this  
\* material without the specific, prior written permission  
\* of an authorized representative of Bellcore. BELLCORE  
\* MAKES NO REPRESENTATIONS ABOUT THE ACCURACY OR SUITABILITY  
\* OF THIS MATERIAL FOR ANY PURPOSE. IT IS PROVIDED "AS IS",  
\* WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES.  
\*/

For the srclib\apr\include\apr\_md5.h component:

/\*  
\* This work is derived from material Copyright RSA Data Security, Inc.  
\*  
\* The RSA copyright statement and Licence for that original material is  
\* included below. This is followed by the Apache copyright statement and  
\* licence for the modifications made to that material.  
\*/

/\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All  
rights reserved.

License to copy and use this software is granted provided that it  
is identified as the "RSA Data Security, Inc. MD5 Message-Digest  
Algorithm" in all material mentioning or referencing this software  
or this function.

License is also granted to make and use derivative works provided  
that such works are identified as "derived from the RSA Data  
Security, Inc. MD5 Message-Digest Algorithm" in all material  
mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either  
the merchantability of this software or the suitability of this  
software for any particular purpose. It is provided "as is"  
without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this  
documentation and/or software.

\*/

For the srclib\apr\passwd\apr\_md5.c component:

/\*

\* This work is derived from material Copyright RSA Data Security, Inc.  
\*  
\* The RSA copyright statement and Licence for that original material is  
\* included below. This is followed by the Apache copyright statement and  
\* licence for the modifications made to that material.  
\*/

/\* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm  
\*/

/\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All  
rights reserved.

License to copy and use this software is granted provided that it  
is identified as the "RSA Data Security, Inc. MD5 Message-Digest  
Algorithm" in all material mentioning or referencing this software  
or this function.

License is also granted to make and use derivative works provided  
that such works are identified as "derived from the RSA Data  
Security, Inc. MD5 Message-Digest Algorithm" in all material  
mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either  
the merchantability of this software or the suitability of this  
software for any particular purpose. It is provided "as is"  
without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this  
documentation and/or software.

\*/  
/\*

\* The apr\_md5\_encode() routine uses much code obtained from the FreeBSD 3.0  
\* MD5 crypt() function, which is licenced as follows:

\* -----  
\* "THE BEER-WARE LICENSE" (Revision 42):  
\* <phk@login.dknet.dk> wrote this file. As long as you retain this notice you  
\* can do whatever you want with this stuff. If we meet some day, and you think  
\* this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp  
\* -----  
\*/

For the srclib\apr-util\crypto\apr\_md4.c component:

\* This is derived from material copyright RSA Data Security, Inc.  
\* Their notice is reproduced below in its entirety.  
\*  
\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All



\* rights reserved.  
\*  
\* License to copy and use this software is granted provided that it  
\* is identified as the "RSA Data Security, Inc. MD4 Message-Digest  
\* Algorithm" in all material mentioning or referencing this software  
\* or this function.  
\*  
\* License is also granted to make and use derivative works provided  
\* that such works are identified as "derived from the RSA Data  
\* Security, Inc. MD4 Message-Digest Algorithm" in all material  
\* mentioning or referencing the derived work.  
\*  
\* RSA Data Security, Inc. makes no representations concerning either  
\* the merchantability of this software or the suitability of this  
\* software for any particular purpose. It is provided "as is"  
\* without express or implied warranty of any kind.  
\*  
\* These notices must be retained in any copies of any part of this  
\* documentation and/or software.  
\*/

For the src\lib\apr-util\include\apr\_md4.h component:

\*  
\* This is derived from material copyright RSA Data Security, Inc.  
\* Their notice is reproduced below in its entirety.  
\*  
\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All  
\* rights reserved.  
\*  
\* License to copy and use this software is granted provided that it  
\* is identified as the "RSA Data Security, Inc. MD4 Message-Digest  
\* Algorithm" in all material mentioning or referencing this software  
\* or this function.  
\*  
\* License is also granted to make and use derivative works provided  
\* that such works are identified as "derived from the RSA Data  
\* Security, Inc. MD4 Message-Digest Algorithm" in all material  
\* mentioning or referencing the derived work.  
\*  
\* RSA Data Security, Inc. makes no representations concerning either  
\* the merchantability of this software or the suitability of this  
\* software for any particular purpose. It is provided "as is"  
\* without express or implied warranty of any kind.  
\*  
\* These notices must be retained in any copies of any part of this  
\* documentation and/or software.  
\*/

For the srclib\apr-util\test\testmd4.c component:

```
*
* This is derived from material copyright RSA Data Security, Inc.
* Their notice is reproduced below in its entirety.
*
* Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
* rights reserved.
*
* RSA Data Security, Inc. makes no representations concerning either
* the merchantability of this software or the suitability of this
* software for any particular purpose. It is provided "as is"
* without express or implied warranty of any kind.
*
* These notices must be retained in any copies of any part of this
* documentation and/or software.
*/
```

For the srclib\apr-util\xml\expat\conftools\install-sh component:

```
#
install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
#
Copyright 1991 by the Massachusetts Institute of Technology
#
Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of M.I.T. not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission. M.I.T. makes no representations about the
suitability of this software for any purpose. It is provided "as is"
without express or implied warranty.
#
```

For the srclib\pcre\install-sh component:

```
#
Copyright 1991 by the Massachusetts Institute of Technology
#
Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
```

# documentation, and that the name of M.I.T. not be used in advertising or  
# publicity pertaining to distribution of the software without specific,  
# written prior permission. M.I.T. makes no representations about the  
# suitability of this software for any purpose. It is provided "as is"  
# without express or implied warranty.

For the pcre component:

## PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 5 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,  
Cambridge, England. Phone: +44 1223 334714.

Copyright (c) 1997-2004 University of Cambridge  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of Cambridge nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

End PCRE LICENCE

For the test\zb.c component:

```
/* ZeusBench V1.01
```

```
=====
```

This program is Copyright (C) Zeus Technology Limited 1996.

This program may be used and copied freely providing this copyright notice is not removed.

This software is provided "as is" and any express or implied warranties, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall Zeus Technology Ltd. be liable for any direct, indirect, incidental, special, exemplary, or consequential damaged (including, but not limited to, procurement of substitute good or services; loss of use, data, or profits; or business interruption) however caused and on theory of liability. Whether in contract, strict liability or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
```

For the expat xml parser component:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd  
and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.



To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

#### APACHE PORTABLE RUNTIME SUBCOMPONENTS:

The Apache Portable Runtime includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

For the include\apr\_md5.h component:

/\*

\* This work is derived from material Copyright RSA Data Security, Inc.

\*

\* The RSA copyright statement and license for that original material is included below. This is followed by the Apache copyright statement and license for the modifications made to that material.

\*/

/\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

\*/

For the passwd\apr\_md5.c component:

/\*

\* This work is derived from material Copyright RSA Data Security, Inc.

\*

\* The RSA copyright statement and Licence for that original material is included below. This is followed by the Apache copyright statement and licence for the modifications made to that material.

\*/

/\* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm

\*/

/\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

```
*/
/*
* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
* MD5 crypt() function, which is licenced as follows:
* -----
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file. As long as you retain this notice you
* can do whatever you want with this stuff. If we meet some day, and you think
* this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp
* -----
*/
```

For the crypto\apr\_md4.c component:

```
* This is derived from material copyright RSA Data Security, Inc.
* Their notice is reproduced below in its entirety.
*
* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
* rights reserved.
*
* License to copy and use this software is granted provided that it
* is identified as the "RSA Data Security, Inc. MD4 Message-Digest
* Algorithm" in all material mentioning or referencing this software
* or this function.
*
* License is also granted to make and use derivative works provided
* that such works are identified as "derived from the RSA Data
* Security, Inc. MD4 Message-Digest Algorithm" in all material
* mentioning or referencing the derived work.
*
* RSA Data Security, Inc. makes no representations concerning either
* the merchantability of this software or the suitability of this
* software for any particular purpose. It is provided "as is"
* without express or implied warranty of any kind.
*
* These notices must be retained in any copies of any part of this
* documentation and/or software.
*/
```

For the include\apr\_md4.h component:

```
*
* This is derived from material copyright RSA Data Security, Inc.
* Their notice is reproduced below in its entirety.
*
* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
* rights reserved.
*
```

\* License to copy and use this software is granted provided that it  
\* is identified as the "RSA Data Security, Inc. MD4 Message-Digest  
\* Algorithm" in all material mentioning or referencing this software  
\* or this function.  
\*  
\* License is also granted to make and use derivative works provided  
\* that such works are identified as "derived from the RSA Data  
\* Security, Inc. MD4 Message-Digest Algorithm" in all material  
\* mentioning or referencing the derived work.  
\*  
\* RSA Data Security, Inc. makes no representations concerning either  
\* the merchantability of this software or the suitability of this  
\* software for any particular purpose. It is provided "as is"  
\* without express or implied warranty of any kind.  
\*  
\* These notices must be retained in any copies of any part of this  
\* documentation and/or software.  
\*/

For the test\testmd4.c component:

\*  
\* This is derived from material copyright RSA Data Security, Inc.  
\* Their notice is reproduced below in its entirety.  
\*  
\* Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All  
\* rights reserved.  
\*  
\* RSA Data Security, Inc. makes no representations concerning either  
\* the merchantability of this software or the suitability of this  
\* software for any particular purpose. It is provided "as is"  
\* without express or implied warranty of any kind.  
\*  
\* These notices must be retained in any copies of any part of this  
\* documentation and/or software.  
\*/

For the xml\expat\confertools\install-sh component:

```

install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).

Copyright 1991 by the Massachusetts Institute of Technology

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
```

```
copyright notice and this permission notice appear in supporting
documentation, and that the name of M.I.T. not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission. M.I.T. makes no representations about the
suitability of this software for any purpose. It is provided "as is"
without express or implied warranty.
#
```

For the expat xml parser component:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd  
and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Software, and to  
permit persons to whom the Software is furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be included  
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY  
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,  
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE  
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====

For the ldap/apr\_ldap\_url.c component:

```
/* Portions Copyright 1998-2002 The OpenLDAP Foundation
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted only as authorized by the OpenLDAP
 * Public License. A copy of this license is available at
 * http://www.OpenLDAP.org/license.html or in file LICENSE in the
 * top-level directory of the distribution.
 *
 * OpenLDAP is a registered trademark of the OpenLDAP Foundation.
 *
 * Individual files and/or contributed packages may be copyright by
```

\* other parties and subject to additional restrictions.  
\*  
\* This work is derived from the University of Michigan LDAP v3.3  
\* distribution. Information concerning this software is available  
\* at: <http://www.umich.edu/~dirsvcs/ldap/>  
\*  
\* This work also contains materials derived from public sources.  
\*  
\* Additional information about OpenLDAP can be obtained at:  
\* <http://www.openldap.org/>  
\*/

/\*  
\* Portions Copyright (c) 1992-1996 Regents of the University of Michigan.  
\* All rights reserved.  
\*  
\* Redistribution and use in source and binary forms are permitted  
\* provided that this notice is preserved and that due credit is given  
\* to the University of Michigan at Ann Arbor. The name of the University  
\* may not be used to endorse or promote products derived from this  
\* software without specific prior written permission. This software  
\* is provided ``as is" without express or implied warranty.  
\*/

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd  
and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Software, and to  
permit persons to whom the Software is furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be included  
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY  
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,  
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE  
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache Portable Runtime Utility Library  
Copyright (c) 2009 The Apache Software Foundation.

This product includes software developed by

The Apache Software Foundation (<http://www.apache.org/>).

Portions of this software were developed at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security Inc. MD5 Message-Digest Algorithm, including various modifications by Spyglass Inc., Carnegie Mellon University, and Bell Communications Research, Inc (Bellcore).

PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 5 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

Written by: Philip Hazel <[ph10@cam.ac.uk](mailto:ph10@cam.ac.uk)>

University of Cambridge Computing Service,  
Cambridge, England. Phone: +44 1223 334714.

Copyright (c) 1997-2004 University of Cambridge  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of Cambridge nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF

SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

End

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the



editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
- Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

#### APACHE PORTABLE RUNTIME SUBCOMPONENTS:

The Apache Portable Runtime includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

/\*

- \* Copyright (c) 1987, 1993, 1994
- \* The Regents of the University of California. All rights reserved.
- \*
- \* Redistribution and use in source and binary forms, with or without
- \* modification, are permitted provided that the following conditions
- \* are met:
- \* 1. Redistributions of source code must retain the above copyright
- \* notice, this list of conditions and the following disclaimer.
- \* 2. Redistributions in binary form must reproduce the above copyright
- \* notice, this list of conditions and the following disclaimer in the
- \* documentation and/or other materials provided with the distribution.
- \* 3. All advertising materials mentioning features or use of this software
- \* must display the following acknowledgement:
- \* This product includes software developed by the University of
- \* California, Berkeley and its contributors.
- \* 4. Neither the name of the University nor the names of its contributors
- \* may be used to endorse or promote products derived from this software
- \* without specific prior written permission.

\*  
\* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND  
\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
\* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE  
\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
\* SUCH DAMAGE.

From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

/\* Copyright (c) 1996 by Internet Software Consortium.  
\*  
\* Permission to use, copy, modify, and distribute this software for any  
\* purpose with or without fee is hereby granted, provided that the above  
\* copyright notice and this permission notice appear in all copies.  
\*  
\* THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS  
\* ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES  
\* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE  
\* CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL  
\* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR  
\* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS  
\* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS  
\* SOFTWARE.

From dso/aix/dso.c:

\* Based on libdl (dlfcn.c/dlfcn.h) which is  
\* Copyright (c) 1992,1993,1995,1996,1997,1988  
\* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.  
\*  
\* Not derived from licensed software.  
\*  
\* Permission is granted to freely use, copy, modify, and redistribute  
\* this software, provided that the author is not construed to be liable  
\* for any results of using the software, alterations are clearly marked  
\* as such, and this notice is not modified.

From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

From strings/apr\_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
* Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

Copyright(C) Caldera International Inc. 2001-2002. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code and documentation must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed or owned by Caldera International, Inc.

Neither the name of Caldera International, Inc. nor the names of other contributors may be used to endorse or promote products derived from this software without specific prior written permission.

USE OF THE SOFTWARE PROVIDED FOR UNDER THIS LICENSE BY CALDERA INTERNATIONAL, INC. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL CALDERA INTERNATIONAL, INC. BE LIABLE FOR ANY DIRECT, INDIRECT INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache Portable Runtime

Copyright (c) 2009 The Apache Software Foundation.

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

Portions of this software were developed at the National Center  
for Supercomputing Applications (NCSA) at the University of  
Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security  
Inc. MD5 Message-Digest Algorithm.

This software contains code derived from UNIX V7, Copyright(C)  
Caldera International Inc.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.



3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache HTTP Server

Copyright 2009 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Portions of this software were developed at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security Inc. MD5 Message-Digest Algorithm, including various modifications by Spyglass Inc., Carnegie Mellon University, and Bell Communications Research, Inc (Bellcore).

Regular expression support is provided by the PCRE library package, which is open source software, written by Philip Hazel, and copyright by the University of Cambridge, England. The original software is available from

<ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/>

## 1.368 httplog 0.3.2

### 1.368.1 Available under license :

Copyright 2011 Thilo Rusche

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.369 i18n 0.6.9

### 1.369.1 Available under license :

Copyright (c) 2008 The Ruby I18n team

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.370 i18n 0.7.0

## 1.371 iCal4j 1.0.4 :ical4j-1.0.4

### 1.371.1 Available under license :

=====  
iCal4j - License  
=====

Copyright (c) 2012, Ben Fortuna  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- o Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- o Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- o Neither the name of Ben Fortuna nor the names of any other contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.372 iconv-lite 0.4.11

### 1.372.1 Available under license :

Copyright (c) 2011 Alexander Shtuchkin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.373 imurmurhash-js 0.1.4

### 1.373.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Gary Court, Jens Taylor

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.374 indent-string 2.1.0

### 1.374.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.375 infinity-agent 2.0.3

### 1.375.1 Available under license :

The MIT License (MIT)

Copyright (c) Vsevolod Strukchinsky <floatdrop@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.376 inflect 0.3.3

### 1.376.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.377 inflight 1.0.4

### 1.377.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF



MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.378 inflight 1.0.4

### 1.378.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.379 inherit 2.2.2

### 1.379.1 Available under license :

Copyright (c) 2012 Dmitry Filatov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

## 1.380 inherits 2.0.1

### 1.380.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.381 ini 1.3.4

### 1.381.1 Available under license :

```
{
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me/)",
 "name": "ini",
 "description": "An ini encoder/decoder for node",
 "version": "1.3.4",
 "repository": {
 "type": "git",
 "url": "git://github.com/isaacs/ini.git"
 },
 "main": "ini.js",
 "scripts": {
 "test": "tap test/*.js"
 },
 "engines": {
 "node": "*"
 },
 "dependencies": {},
 "devDependencies": {
 "tap": "^1.2.0"
 },
 "license": "ISC",
 "files": [
```

```
"ini.js"
]
}
```

## 1.382 inquirer.js 0.10.0

### 1.382.1 Available under license :

Copyright (c) 2012 Simon Boudrias

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.383 insight 0.7.0

## 1.384 interpret 0.6.6

### 1.384.1 Available under license :

Copyright (c) 2014 Tyler Kellen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the

Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.385 intersect 0.0.3

### 1.385.1 Available under license :

(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.386 iperf 2.0.5 :r0.0

## 1.386.1 Available under license :

Copyright (c) 1999-2007, The Board of Trustees of the University of Illinois  
All Rights Reserved.

Iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

University of Illinois at Urbana-Champaign

<http://www.ncsa.uiuc.edu>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software (Iperf) and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.

Neither the names of the University of Illinois, NCSA, nor the names of its contributors may be used to endorse or promote products derived from this Software without specific prior written permission. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.387 ipmitool 1.8.11

## 1.387.1 Available under license :

Copyright (c) 2003 Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN MICROSYSTEMS, INC. ("SUN") AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES SUFFERED BY LICENSEE AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THIS SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 1.388 iptables 1.4.7 :4.9.amzn1

### 1.388.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under



these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than 'show w' and 'show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

```
/*
```

```
* Author: Paul.Russell@rustcorp.com.au and mneuling@radlogic.com.au
```

```
*
```

```
* (C) 2000-2002 by the netfilter coreteam <coreteam@netfilter.org>:
```

```
* Paul 'Rusty' Russell <rusty@rustcorp.com.au>
```

```
* Marc Boucher <marc+nf@mbsi.ca>
```

```
* James Morris <jmorris@intercode.com.au>
```

```
* Harald Welte <laforge@gnumonks.org>
```

```
* Jozsef Kadlecsek <kadlec@blackhole.kfki.hu>
```

\*  
\* This program is free software; you can redistribute it and/or modify  
\* it under the terms of the GNU General Public License as published by  
\* the Free Software Foundation; either version 2 of the License, or  
\* (at your option) any later version.  
\*  
\* This program is distributed in the hope that it will be useful,  
\* but WITHOUT ANY WARRANTY; without even the implied warranty of  
\* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
\* GNU General Public License for more details.  
\*  
\* You should have received a copy of the GNU General Public License  
\* along with this program; if not, write to the Free Software  
\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*/

## 1.389 iputils 20071127

### 1.389.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid

anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE

### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest



your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program

except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
```

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

\* Copyright (c) 1983 Regents of the University of California.

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\* 3. All advertising materials mentioning features or use of this software

\* must display the following acknowledgement:

\* This product includes software developed by the University of

\* California, Berkeley and its contributors.

\* 4. Neither the name of the University nor the names of its contributors

\* may be used to endorse or promote products derived from this software

\* without specific prior written permission.

\*

\* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND

\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

\* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
\* SUCH DAMAGE.

\* tracepath.c

\*

\* This program is free software; you can redistribute it and/or  
\* modify it under the terms of the GNU General Public License  
\* as published by the Free Software Foundation; either version  
\* 2 of the License, or (at your option) any later version.

\*

\* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>

/\* pg3.c: Packet Generator for packet performance testing.

\*

\* Copyright 2001 by Robert Olsson <robert.olsson@its.uu.se>

\*

Uppsala University, Sweden

\*

\* This program is free software; you can redistribute it and/or modify  
\* it under the terms of the GNU General Public License as published by  
\* the Free Software Foundation; either version 2 of the License, or  
\* (at your option) any later version.

\*

\*

\*

\*/

\* tracepath6.c

\*

\* This program is free software; you can redistribute it and/or  
\* modify it under the terms of the GNU General Public License  
\* as published by the Free Software Foundation; either version  
\* 2 of the License, or (at your option) any later version.

\*

\* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>

\* rarpd.c RARP daemon.

\*

\* This program is free software; you can redistribute it and/or  
\* modify it under the terms of the GNU General Public License  
\* as published by the Free Software Foundation; either version  
\* 2 of the License, or (at your option) any later version.

\*

\* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>

## 1.390 is-absolute 0.1.7

## 1.390.1 Available under license :

# is-absolute [![NPM version](https://badge.fury.io/js/is-absolute.svg)](http://badge.fury.io/js/is-absolute) [![Build Status](https://travis-ci.org/jonschlinkert/is-absolute.svg)](https://travis-ci.org/jonschlinkert/is-absolute)

> Return true if a file path is absolute.

Based on the `isAbsolute` utility method in [express](https://github.com/visionmedia/express).

## Install with [npm](npmjs.org)

```
```bash
npm i is-absolute --save
```
```

## Usage

```
```js
var isAbsolute = require('is-absolute');
console.log(isAbsolute('a/b/c.js'));
//=> 'false';
```
```

## Running tests

Install dev dependencies.

```
```bash
npm i -d && npm test
```
```

## Contributing

Pull requests and stars are always welcome. For bugs and feature requests, [please create an issue](https://github.com/jonschlinkert/is-absolute/issues)

## Other projects

- \* [is-relative](https://github.com/jonschlinkert/is-relative): Returns `true` if the path appears to be relative.
- \* [is-dotfile](https://github.com/regexps/is-dotfile): Return true if a file path is (or has) a dotfile.
- \* [is-glob](https://github.com/jonschlinkert/is-glob): Returns `true` if the given string looks like a glob pattern.
- \* [cwd](https://github.com/jonschlinkert/cwd): Node.js util for easily getting the current working directory of a project based on package.json or the given path.
- \* [git-config-path](https://github.com/jonschlinkert/git-config-path): Resolve the path to the user's global .gitconfig.

## Author

\*\*Jon Schlinkert\*\*

+ [github/jonschlinkert](https://github.com/jonschlinkert)  
+ [twitter/jonschlinkert](http://twitter.com/jonschlinkert)

## License

Copyright (c) 2014-2015 Jon Schlinkert

Released under the MIT license

\*\*\*

\_This file was generated by [verb-cli](https://github.com/assemble/verb-cli) on March 05, 2015.\_

## 1.391 is-absolute 0.1.7

### 1.391.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert. Copyright (c) 2009-2015, TJ Holowaychuk.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.392 is-binary-path 1.0.1

### 1.392.1 Available under license :

# is-binary-path [![Build Status](https://travis-ci.org/sindresorhus/is-binary-path.svg?branch=master)](https://travis-ci.org/sindresorhus/is-binary-path)

> Check if a filepath is a binary file

## Install



```

...
$ npm install --save is-binary-path
...

Usage

```js
var isBinaryPath = require('is-binary-path');

isBinaryPath('src/unicorn.png');
//=> true

isBinaryPath('src/unicorn.txt');
//=> false
...

## Related

- [ binary-extensions ](https://github.com/sindresorhus/binary-extensions) - List of binary file extensions
- [ is-text-path ](https://github.com/sindresorhus/is-text-path) - Check if a filepath is a text file

## License

MIT © [Sindre Sorhus](http://sindresorhus.com)

```

1.393 is-builtin-module 1.0.0

1.393.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.394 is-dotfile 1.0.2

1.394.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.395 is-equal-shallow 0.1.3

1.395.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.396 is-extglob 1.0.0

1.396.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.397 is-finite 1.0.1

1.397.1 Available under license :

is-finite [![Build Status](https://travis-ci.org/sindresorhus/is-finite.svg?branch=master)](https://travis-ci.org/sindresorhus/is-finite)

> ES6 [Number.isFinite()](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Number/isFinite) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

```
## Install
```

```
```sh  
$ npm install --save is-finite
```
```

```
## Usage
```

```
```js  
var numIsFinite = require('is-finite');

numIsFinite(4);
//=> true

numIsFinite(Infinity);
//=> false
```
```

```
## License
```

```
MIT © [Sindre Sorhus](http://sindresorhus.com)
```

1.398 is-fullwidth-code-point 1.0.0

1.398.1 Available under license :

is-fullwidth-code-point [![Build Status](https://travis-ci.org/sindresorhus/is-fullwidth-code-point.svg?branch=master)](https://travis-ci.org/sindresorhus/is-fullwidth-code-point)

> Check if the character represented by a given [Unicode code point](https://en.wikipedia.org/wiki/Code_point) is [fullwidth](https://en.wikipedia.org/wiki/Halfwidth_and_fullwidth_forms)

```
## Install
```

```
```  
$ npm install --save is-fullwidth-code-point
```
```

```
## Usage
```

```
```js  
var isFullwidthCodePoint = require('is-fullwidth-code-point');
```

```
isFullwidthCodePoint(".codePointAt());
```

```
//=> true
```

```
isFullwidthCodePoint('a'.codePointAt());
```

```
//=> false
```

```
...
```

```
API
```

```
isFullwidthCodePoint(input)
```

```
input
```

```
Type: `number`
```

```
[Code point](https://en.wikipedia.org/wiki/Code_point) of a character.
```

```
License
```

```
MIT © [Sindre Sorhus](http://sindresorhus.com)
```

## 1.399 is-my-json-valid 2.12.1

### 1.399.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

THE SOFTWARE.

## 1.400 is-npm 1.0.0

### 1.400.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.401 is-number 1.1.2

### 1.401.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.402 is-primitive 2.0.0

### 1.402.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.403 is-property 1.0.2

### 1.403.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.404 is-property 1.0.2

### 1.404.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.405 is-redirect 1.0.0

### 1.405.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal



in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.406 is-relative 0.1.3

### 1.406.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.407 is-relative 0.1.3

## 1.407.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.408 is-root 1.0.0

### 1.408.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

THE SOFTWARE.

## 1.409 is-stream 1.0.1

### 1.409.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.410 isarray 0.0.1

### 1.410.1 Available under license :

License

-----

(The MIT License)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.411 isarray 0.0.1

### 1.411.1 Available under license :

(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.412 isobject 1.0.1

### 1.412.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.413 isstream 0.1.2

### 1.413.1 Available under license :

The MIT License (MIT)

=====

Copyright (c) 2015 Rod Vagg

-----

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.414 isstream 0.1.2

### 1.414.1 Available under license :

The MIT License (MIT)

=====

Copyright (c) 2015 Rod Vagg

-----

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated

documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.415 Jackson-annotations 2.2.2

### 1.415.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such

third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within



third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and  
limitations under the License.

This copy of Jackson JSON processor annotations is licensed under the  
Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the  
specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

## 1.416 Jackson-core 2.2.2

### 1.416.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf

and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

This copy of Jackson JSON processor streaming parser/generator is licensed under the  
Apache (Software) License, version 2.0 ("the License").  
See the License for details about distribution rights, and the  
specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>  
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has  
been in development since 2007.

It is currently developed by a community of developers, as well as supported  
commercially by FasterXML.com.

### ## Licensing

Jackson core and extension components may licensed under different licenses.  
To find the details that apply to this artifact see the accompanying LICENSE file.  
For more information, including possible other licensing options, contact  
FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

# 1.417 jackson-core-asl 1.9.11

## 1.417.1 Available under license :

### Licensing

Jackson is dual-licensed under two alternative popular Open Source licenses: Apache (AL 2.0) and GNU Lesser GPL (LGPL 2.1). You choose one or the other, as necessary (if you want to redistribute the code -- for use, you do not need license), and abide by the license rules as defined by the respective license agreement (and only that one).

All code contributions must be licensable under these two licenses.

### Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix

below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the

Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within

third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

GNU Lesser General Public License

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know



their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the

copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this

function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold

for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not

normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source

file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and an idea of what it does.> Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.418 jackson-databind 2.2.2

### 1.418.1 Available under license :

This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## ## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

# 1.419 jackson-jaxrs 1.8.3

## 1.419.1 Available under license :

This copy of Jackson JSON processor is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivative works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/>

A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/" Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,



"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
  
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

## GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If



identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.  
^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our

decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

^L

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

# 1.420 jackson-mapper-asl 1.9.11

## 1.420.1 Available under license :

Licensing

Jackson is dual-licensed under two alternative popular Open Source licenses: Apache (AL 2.0) and GNU Lesser GPL (LGPL 2.1). You choose one or the other, as necessary (if you want to redistribute the code -- for use, you do not need license), and abide by the license rules as defined by the respective license agreement (and only that one).

All code contributions must be licensable under these two licenses.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to



You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

GNU Lesser General Public License  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307  
USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over

competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a

license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED



IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and an idea of what it does.> Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.421 jackson-xc 1.8.3

### 1.421.1 Available under license :

This copy of Jackson JSON processor is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/>

A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/" Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of

any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run



that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any

warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is

implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

^L

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,



MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.422 jasmine 2.1.1

### 1.422.1 Available under license :

Copyright (c) 2008-2011 Pivotal Labs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2014 Pivotal Labs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2010 Pivotal Labs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.423 jasminewd 1.1.0

### 1.423.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.424 jasminewd2 0.0.2

### 1.424.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.425 jasper-compiler 5.5.23

### 1.425.1 Available under license :

\*

- \* Licensed to the Apache Software Foundation (ASF) under one or more
- \* contributor license agreements. See the NOTICE file distributed with
- \* this work for additional information regarding copyright ownership.
- \* The ASF licenses this file to You under the Apache License, Version 2.0
- \* (the "License"); you may not use this file except in compliance with

\* the License. You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/  
Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the

Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works

as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.426 jasper-runtime 5.5.23

### 1.426.1 Available under license :

/\*

\* Licensed to the Apache Software Foundation (ASF) under one or more  
\* contributor license agreements. See the NOTICE file distributed with  
\* this work for additional information regarding copyright ownership.  
\* The ASF licenses this file to You under the Apache License, Version 2.0  
\* (the "License"); you may not use this file except in compliance with  
\* the License. You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.

\*/

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:



You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or

rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.427 java-util 0.27.4

## 1.427.1 Available under license :

java-util

Copyright 2011-2015 Metamarkets Group Inc.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.428 java-xmlbuilder 0.4

## 1.428.1 Available under license :

```
/*
 * Copyright 2008 James Murty (www.jamesmurty.com)
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 *
 *
 * This code is available from the Google Code repository at:
 * http://code.google.com/p/java-xmlbuilder
 */
```

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form,

including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and



You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.429 Javassist 3.18.2-GA

## 1.429.1 Available under license :

```
/*
 * Javassist, a Java-bytecode translator toolkit.
 * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
 *
 * The contents of this file are subject to the Mozilla Public License Version
 * 1.1 (the "License"); you may not use this file except in compliance with
 * the License. Alternatively, the contents of this file may be used under
 * the terms of the GNU Lesser General Public License Version 2.1 or later,
 * or the Apache License Version 2.0.
 *
 * Software distributed under the License is distributed on an "AS IS" basis,
 * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 * for the specific language governing rights and limitations under the
 * License.
 */
Apache License
```

Version 2.0, January 2004

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce,

prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR

CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.430 Javassist 3.18.1-GA

## 1.430.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been

received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product

names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and



limitations under the License.

/\*

\* Javassist, a Java-bytecode translator toolkit.

\* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

\*

\* The contents of this file are subject to the Mozilla Public License Version

\* 1.1 (the "License"); you may not use this file except in compliance with

\* the License. Alternatively, the contents of this file may be used under

\* the terms of the GNU Lesser General Public License Version 2.1 or later,

\* or the Apache License Version 2.0.

\*

\* Software distributed under the License is distributed on an "AS IS" basis,

\* WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License

\* for the specific language governing rights and limitations under the

\* License.

\*/

# 1.431 javax.activation 1.1.0 v201105071233

## 1.431.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
```

```
// Version 2.0, in this case for Geronimo JavaMail :: 1.4 Provider
```

```
// -----
```

Geronimo JavaMail :: 1.4 Provider  
Copyright 2003-2007 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

About This Content

June, 2008

## License

The Eclipse Foundation makes available all content in this plug-in ("Content"). Unless otherwise indicated below, the Content is provided to you under the terms and conditions of the Eclipse Public License Version 1.0 ("EPL"). A copy of the EPL is available at <http://www.eclipse.org/legal/epl-v10.html>. For purposes of the EPL, "Program" will mean the Content.

If you did not receive this Content directly from the Eclipse Foundation, the Content is being redistributed by another party ("Redistributor") and different terms and conditions may apply to your use of any object code in the Content. Check the Redistributor's license that was provided with the Content. If no such license exists, contact the Redistributor. Unless otherwise indicated below, the terms and conditions of the EPL still apply to any source code in the Content and such source code may be obtained at <http://www.eclipse.org>.

## Third Party Content

The Content includes items that have been sourced from third parties as set out below. If you did not receive this Content directly from the Eclipse Foundation, the following is provided for informational purposes only, and you should look to the Redistributor's license for terms and conditions of use.

### JavaBeans Activation Framework 1.1

Your use of the Activation Framework code is subject to the terms and conditions of the Apache License Version 2.0. A copy of the license is contained in the file LICENSE.txt and is also available at <http://www.apache.org/licenses/>.

The source for the javax.activation bundle is available on the Apache Geronimo website at <http://geronimo.apache.org/>.

```
// -----
// NOTICE file corresponding to the section 4d of The Apache License,

// Version 2.0, in this case for Activation 1.1
// -----
```

### Activation 1.1

Copyright 2003-2007 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

/\*

```
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
```

- \*
- \* Unless required by applicable law or agreed to in writing,
- \* software distributed under the License is distributed on an
- \* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
- \* KIND, either express or implied. See the License for the
- \* specific language governing permissions and limitations
- \* under the License.
- \* /

## 1.432 javax.annotation API 1.2

### 1.432.1 Available under license :

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

Copyright (c) 2012-2013 Oracle and/or its affiliates. All rights reserved.

The contents of this file are subject to the terms of either the GNU General Public License Version 2 only ("GPL") or the Common Development and Distribution License("CDDL") (collectively, the "License"). You may not use this file except in compliance with the License. You can obtain a copy of the License at [https://glassfish.dev.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html) or `packager/legal/LICENSE.txt`. See the License for the specific language governing permissions and limitations under the License.

When distributing the software, include this License Header Notice in each file and include the License file at `packager/legal/LICENSE.txt`.

GPL Classpath Exception:

Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the GPL Version 2 section of the License file that accompanied this code.

Modifications:

If applicable, add the following below the License Header, with the fields enclosed by brackets [] replaced by your own identifying information: "Portions Copyright [year] [name of copyright owner]"

Contributor(s):

If you wish your version of this file to be governed by only the CDDL or only the GPL Version 2, indicate your decision by adding "[Contributor] elects to include this software in this distribution under the [CDDL or GPL Version 2] license." If you don't indicate a single choice of license, a recipient has the option to distribute your version of this file under either the CDDL, the GPL Version 2 or to extend the choice of license to its licensees as provided above. However, if you add GPL Version 2 code and therefore, elected the GPL Version 2 license, then the option applies

only if the new code is made subject to such option by the copyright holder.

## COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

### 1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause



the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

### 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

#### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

#### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

#### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

#### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

#### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

### 4. Versions of the License.

#### 4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

#### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

#### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

### 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

## 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

## 8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

## 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

## 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising,

directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to

know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your

work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you

permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be



guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the

Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

#### "CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

# 1.433 javax.inject 1

## 1.433.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic

mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any

additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

/\*

\* Copyright (C) 2009 The JSR-330 Expert Group

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

## 1.434 javax.inject 1.0

### 1.434.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.



You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.435 javax.inject 2.4.0-b09

### 1.435.1 Available under license :

CDDL + GPLv2 with classpath exception

[https://glassfish.java.net/nonav/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html)

A business-friendly OSS license

## 1.436 javax.mail.glassfish

### 1.4.1.v201005082020

## 1.436.1 Available under license :

```
/*
 * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
 *
 * Copyright 1997-2007 Sun Microsystems, Inc. All rights reserved.
 *
 * The contents of this file are subject to the terms of either the GNU
 * General Public License Version 2 only ("GPL") or the Common Development
 * and Distribution License("CDDL") (collectively, the "License"). You
 * may not use this file except in compliance with the License. You can obtain
 * a copy of the License at https://glassfish.dev.java.net/public/CDDL+GPL.html
 * or glassfish/bootstrap/legal/LICENSE.txt. See the License for the specific
 * language governing permissions and limitations under the License.
 *
 * When distributing the software, include this License Header Notice in each
 * file and include the License file at glassfish/bootstrap/legal/LICENSE.txt.
 * Sun designates this particular file as subject to the "Classpath" exception
 * as provided by Sun in the GPL Version 2 section of the License file that
 * accompanied this code. If applicable, add the following below the License
 * Header, with the fields enclosed by brackets [] replaced by your own
 * identifying information: "Portions Copyrighted [year]
 * [name of copyright owner]"
 *
 * Contributor(s):
 *
 * If you wish your version of this file to be governed by only the CDDL or
 * only the GPL Version 2, indicate your decision by adding "[Contributor]
 * elects to include this software in this distribution under the [CDDL or GPL
 * Version 2] license." If you don't indicate a single choice of license, a
 * recipient has the option to distribute your version of this file under
 * either the CDDL, the GPL Version 2 or to extend the choice of license to
 * its licensees as provided above. However, if you add GPL Version 2 code
 * and therefore, elected the GPL Version 2 license, then the option applies
 * only if the new code is made subject to such option by the copyright
 * holder.
 *
 *
 * The Eclipse Foundation elects to include this software in this distribution
 * under the CDDL license.
 *
 */
```

## 1.437 javax.servlet 3.0.0.v201112011016

## 1.437.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

### 1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause

the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

### 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

#### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

#### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

#### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

#### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

#### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

### 4. Versions of the License.

#### 4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

#### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

#### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

### 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

## 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

## 8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

## 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

## 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising,



directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to

know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your

work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you

permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be

guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the

Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

#### "CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

# 1.438 Javax.Servlet-api 3.0.1

## 1.438.1 Available under license :

```
/*
 * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
 *
 * Copyright 1997-2008 Sun Microsystems, Inc. All rights reserved.
 *
 * The contents of this file are subject to the terms of either the GNU
 * General Public License Version 2 only ("GPL") or the Common Development
 * and Distribution License("CDDL") (collectively, the "License"). You
 * may not use this file except in compliance with the License. You can obtain
 * a copy of the License at https://glassfish.dev.java.net/public/CDDL+GPL.html
 * or glassfish/bootstrap/legal/LICENSE.txt. See the License for the specific
 * language governing permissions and limitations under the License.
 *
 * When distributing the software, include this License Header Notice in each
 * file and include the License file at glassfish/bootstrap/legal/LICENSE.txt.
 * Sun designates this particular file as subject to the "Classpath" exception
 * as provided by Sun in the GPL Version 2 section of the License file that
 * accompanied this code. If applicable, add the following below the License
 * Header, with the fields enclosed by brackets [] replaced by your own
 * identifying information: "Portions Copyrighted [year]
 * [name of copyright owner]"
 *
 * Contributor(s):
 *
 * If you wish your version of this file to be governed by only the CDDL or
 * only the GPL Version 2, indicate your decision by adding "[Contributor]
 * elects to include this software in this distribution under the [CDDL or GPL
 * Version 2] license." If you don't indicate a single choice of license, a
 * recipient has the option to distribute your version of this file under
 * either the CDDL, the GPL Version 2 or to extend the choice of license to
 * its licensees as provided above. However, if you add GPL Version 2 code
 * and therefore, elected the GPL Version 2 license, then the option applies
 * only if the new code is made subject to such option by the copyright
 * holder.
 *
 * This file incorporates work covered by the following copyright and
 * permission notice:
 *
 * Copyright 2004 The Apache Software Foundation
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
```

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

## 1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation,



method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

### 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

#### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

#### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

#### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

#### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

## 4. Versions of the License.

### 4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

## 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as

.Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

## 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

## 8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

## 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys. fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or

regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

#### 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all

the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the

Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though

third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.



Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public

License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

#### "CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

# 1.439 javax.transaction 1.1.1v201105210645

## 1.439.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the Apache Geronimo distribution. ==  
=====

Apache Geronimo  
Copyright 2003-2009 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

For the server adapter code (in `plugins/org.apache.geronimo.st.*`):

Portions of the Eclipse Geronimo Server Adapter were originally developed by International Business Machines Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Eclipse Geronimo Server Adapter CLA".

The following copyright notice(s) were affixed to portions of this code with which this file is now or was at one time distributed and are placed here unaltered.

/\*\*\*\*\*  
\* Copyright (c) 2005 IBM Corporation and others.  
\* All rights reserved. This program and the accompanying materials

\* are made available under the terms of the Eclipse Public License v1.0

\* which accompanies this distribution, and is available at

\* <http://www.eclipse.org/legal/epl-v10.html>

\*

\* Contributors:

\* IBM Corporation - Initial API and implementation

\*\*\*\*\*/

For the geronimo-util jar in org.apache.geronimo.runtime.v20,  
and the geronimo-crypto jar in org.apache.geronimo.runtime.v21:

=====  
== Bouncy Castle Notice ==  
=====

This product includes software (the ASN1 codec in the org.apache.geronimo.asn1 package) which was developed by the Bouncy Castle project.  
(<http://www.bouncycastle.org/>)

Copyright (c) 2000-2005 The Legion Of The Bouncy Castle (<http://www.bouncycastle.org>)

For jaxb-api and jaxb-impl jars in org.apache.geronimo.runtime.common.jar:

=====  
== Sun CDDL Notice ==  
=====

This product includes software developed for the JAXB Reference Implementation project. (<https://jaxb.dev.java.net/>)

For plexus-archiver-1.0-alpha-7.jar in org.apache.geronimo.runtime.v21.jar:

=====  
== Plexus Notice ==  
=====

This product includes software developed by the Plexus project  
(<http://plexus.codehaus.org/>)

The source code for the Plexus project can be downloaded from:

<http://plexus.codehaus.org/source-repository.html>

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.



## 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute

the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a

commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and

distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

## 1.440 javax.ws.rs-api 2.0.1

### 1.440.1 Available under license :

License names:

CDDL 1.1

GPL2 w/ CPE

## 1.441 jaxb-api 2.2.2

### 1.441.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or

otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

## 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

## 3. Distribution Obligations.

### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

## 4. Versions of the License.

### 4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also

choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

#### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

#### 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

#### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

#### 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF



SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

#### 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

#### 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the

Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather,

the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM

"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

#### "CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

## 1.442 jaxb-impl 2.2.3-1

### 1.442.1 Available under license :

/\*

\* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

\*

\* Copyright (c) 2010 Oracle and/or its affiliates. All rights reserved.

\*

\* The contents of this file are subject to the terms of either the GNU

\* General Public License Version 2 only ("GPL") or the Common Development

\* and Distribution License("CDDL") (collectively, the "License"). You  
 \* may not use this file except in compliance with the License. You can  
 \* obtain a copy of the License at  
 \* [https://glassfish.dev.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html)  
 \* or packager/legal/LICENSE.txt. See the License for the specific  
 \* language governing permissions and limitations under the License.  
 \*  
 \* When distributing the software, include this License Header Notice in each  
 \* file and include the License file at packager/legal/LICENSE.txt.  
 \*  
 \* GPL Classpath Exception:  
 \* Oracle designates this particular file as subject to the "Classpath"  
 \* exception as provided by Oracle in the GPL Version 2 section of the License  
 \* file that accompanied this code.  
 \*  
 \* Modifications:  
 \* If applicable, add the following below the License Header, with the fields  
 \* enclosed by brackets [] replaced by your own identifying information:  
 \* "Portions Copyright [year] [name of copyright owner]"  
 \*  
 \* Contributor(s):  
 \* If you wish your version of this file to be governed by only the CDDL or  
 \* only the GPL Version 2, indicate your decision by adding "[Contributor]  
 \* elects to include this software in this distribution under the [CDDL or GPL  
 \* Version 2] license." If you don't indicate a single choice of license, a  
 \* recipient has the option to distribute your version of this file under  
 \* either the CDDL, the GPL Version 2 or to extend the choice of license to  
 \* its licensees as provided above. However, if you add GPL Version 2 code  
 \* and therefore, elected the GPL Version 2 license, then the option applies  
 \* only if the new code is made subject to such option by the copyright  
 \* holder.  
 \*/  
 /\*  
 \* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.  
 \*  
 \* Copyright (c) 1997-2010 Oracle and/or its affiliates. All rights reserved.  
 \*  
 \* The contents of this file are subject to the terms of either the GNU  
 \* General Public License Version 2 only ("GPL") or the Common Development  
 \* and Distribution License("CDDL") (collectively, the "License"). You  
 \* may not use this file except in compliance with the License. You can  
 \* obtain a copy of the License at  
 \* [https://glassfish.dev.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html)  
 \* or packager/legal/LICENSE.txt. See the License for the specific  
 \* language governing permissions and limitations under the License.  
 \*  
 \* When distributing the software, include this License Header Notice in each  
 \* file and include the License file at packager/legal/LICENSE.txt.



```

*
* GPL Classpath Exception:
* Oracle designates this particular file as subject to the "Classpath"
* exception as provided by Oracle in the GPL Version 2 section of the License
* file that accompanied this code.
*
* Modifications:
* If applicable, add the following below the License Header, with the fields
* enclosed by brackets [] replaced by your own identifying information:
* "Portions Copyright [year] [name of copyright owner]"
*
* Contributor(s):
* If you wish your version of this file to be governed by only the CDDL or
* only the GPL Version 2, indicate your decision by adding "[Contributor]
* elects to include this software in this distribution under the [CDDL or GPL
* Version 2] license." If you don't indicate a single choice of license, a
* recipient has the option to distribute your version of this file under
* either the CDDL, the GPL Version 2 or to extend the choice of license to
* its licensees as provided above. However, if you add GPL Version 2 code
* and therefore, elected the GPL Version 2 license, then the option applies
* only if the new code is made subject to such option by the copyright
* holder.
*/
/*
* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
*
* Copyright 1997-2007 Sun Microsystems, Inc. All rights reserved.
*
* The contents of this file are subject to the terms of either the GNU
* General Public License Version 2 only ("GPL") or the Common Development
* and Distribution License("CDDL") (collectively, the "License"). You
* may not use this file except in compliance with the License. You can obtain
* a copy of the License at https://glassfish.dev.java.net/public/CDDL+GPL.html
* or glassfish/bootstrap/legal/LICENSE.txt. See the License for the specific
* language governing permissions and limitations under the License.
*
* When distributing the software, include this License Header Notice in each
* file and include the License file at glassfish/bootstrap/legal/LICENSE.txt.
* Sun designates this particular file as subject to the "Classpath" exception
* as provided by Sun in the GPL Version 2 section of the License file that
* accompanied this code. If applicable, add the following below the License
* Header, with the fields enclosed by brackets [] replaced by your own
* identifying information: "Portions Copyrighted [year]
* [name of copyright owner]"
*
* Contributor(s):
*
* If you wish your version of this file to be governed by only the CDDL or

```

```
* only the GPL Version 2, indicate your decision by adding "[Contributor]
* elects to include this software in this distribution under the [CDDL or GPL
* Version 2] license." If you don't indicate a single choice of license, a
* recipient has the option to distribute your version of this file under
* either the CDDL, the GPL Version 2 or to extend the choice of license to
* its licensees as provided above. However, if you add GPL Version 2 code
* and therefore, elected the GPL Version 2 license, then the option applies
* only if the new code is made subject to such option by the copyright
* holder.
*/
/*
* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
*
* Copyright 1997-2009 Sun Microsystems, Inc. All rights reserved.
*
* The contents of this file are subject to the terms of either the GNU
* General Public License Version 2 only ("GPL") or the Common Development
* and Distribution License("CDDL") (collectively, the "License"). You
* may not use this file except in compliance with the License. You can obtain
* a copy of the License at https://glassfish.dev.java.net/public/CDDL+GPL.html
* or glassfish/bootstrap/legal/LICENSE.txt. See the License for the specific
* language governing permissions and limitations under the License.
*
* When distributing the software, include this License Header Notice in each
* file and include the License file at glassfish/bootstrap/legal/LICENSE.txt.
* Sun designates this particular file as subject to the "Classpath" exception
* as provided by Sun in the GPL Version 2 section of the License file that
* accompanied this code. If applicable, add the following below the License
* Header, with the fields enclosed by brackets [] replaced by your own
* identifying information: "Portions Copyrighted [year]
* [name of copyright owner]"
*
* Contributor(s):
*
* If you wish your version of this file to be governed by only the CDDL or
* only the GPL Version 2, indicate your decision by adding "[Contributor]
* elects to include this software in this distribution under the [CDDL or GPL
* Version 2] license." If you don't indicate a single choice of license, a
* recipient has the option to distribute your version of this file under
* either the CDDL, the GPL Version 2 or to extend the choice of license to
* its licensees as provided above. However, if you add GPL Version 2 code
* and therefore, elected the GPL Version 2 license, then the option applies
* only if the new code is made subject to such option by the copyright
* holder.
*/
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
```

```

* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* https://jwsdp.dev.java.net/CDDLv1.0.html
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* https://jwsdp.dev.java.net/CDDLv1.0.html If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/**
 * Copyright (c) 2001, Thai Open Source Software Center Ltd
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are
 * met:
 *
 * Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 *
 * Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * Neither the name of the Thai Open Source Software Center Ltd nor
 * the names of its contributors may be used to endorse or promote
 * products derived from this software without specific prior written
 * permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
 * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 * LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

```

*/
// XMLWriter.java - serialize an XML document.
// Written by David Megginson, david@megginson.com
// NO WARRANTY! This class is in the public domain.
// AttributesImpl.java - default implementation of Attributes.
// http://www.saxproject.org
// Written by David Megginson
// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.
 * See http://www.saxproject.org
 * for further information.
 * </blockquote>
 *
 * <p>This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes } interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 *
 * to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or
 * to construct or modify an Attributes object in a SAX2 driver or filter.
 *
 *
 * <p>This class replaces the now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList } interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */
// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson
// This class is in the Public Domain. NO WARRANTY!

```

```
RELAX NG Schema for WSDL 1.1 HTTP Binding
#
Written by Kohsuke Kawaguchi
#
This schema is in public domain. Feel free to use it in anyway you can.
If you find a bug, please let me know.
RELAX NG Schema for WSDL 1.1 HTTP Binding
#
Written by Kohsuke Kawaguchi
#
This schema is in public domain. Feel free to use it in anyway you can.
If you find a bug, please let me know.
RELAX NG Schema for WSDL 1.1 SOAP Binding
#
Written by Kohsuke Kawaguchi
#
This schema is in public domain. Feel free to use it in anyway you can.
If you find a bug, please let me know.
RELAX NG Schema for WSDL 1.1
#
Written by Kohsuke Kawaguchi
#
This schema is in public domain. Feel free to use it in anyway you can.
If you find a bug, please let me know.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
```

## 1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares

or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

### 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such

Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.



### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You

alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

## 4. Versions of the License.

### 4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs

from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

#### 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

#### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

#### 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. " 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

#### 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such

jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

#### 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it

if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE

### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as



distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 1.443 JBoss Logging 3 3.1.3.GA

### 1.443.1 Available under license :

Apache License

Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.444 jboss-logging 3.1.3.GA



## 1.444.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.445 jcl-over-slf4j-1.7.5.jar 1.7.5

## 1.446 jersey-client 1.9

### 1.446.1 Available under license :

```
/*
 * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
 *
 * Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.
 *
 * The contents of this file are subject to the terms of either the GNU
 * General Public License Version 2 only ("GPL") or the Common Development
 * and Distribution License("CDDL") (collectively, the "License"). You
 * may not use this file except in compliance with the License. You can
 * obtain a copy of the License at
 * http://glassfish.java.net/public/CDDL+GPL_1_1.html
 * or packager/legal/LICENSE.txt. See the License for the specific
 * language governing permissions and limitations under the License.
 *
 * When distributing the software, include this License Header Notice in each
 * file and include the License file at packager/legal/LICENSE.txt.
 *
 * GPL Classpath Exception:
 * Oracle designates this particular file as subject to the "Classpath"
 * exception as provided by Oracle in the GPL Version 2 section of the License
 * file that accompanied this code.
 *
 * Modifications:
 * If applicable, add the following below the License Header, with the fields
 * enclosed by brackets [] replaced by your own identifying information:
 * "Portions Copyright [year] [name of copyright owner]"
 *
```

```
* Contributor(s):
* If you wish your version of this file to be governed by only the CDDL or
* only the GPL Version 2, indicate your decision by adding "[Contributor]
* elects to include this software in this distribution under the [CDDL or GPL
* Version 2] license." If you don't indicate a single choice of license, a
* recipient has the option to distribute your version of this file under
* either the CDDL, the GPL Version 2 or to extend the choice of license to
* its licensees as provided above. However, if you add GPL Version 2 code
* and therefore, elected the GPL Version 2 license, then the option applies
* only if the new code is made subject to such option by the copyright
* holder.
```

```
*/
```

```
package com.sun.jersey.api.client;
```

```
import java.io.IOException;
```

```
import java.io.OutputStream;
```

```
/**
```

```
* A committing output stream that commits before
* the first byte is written to the adapted { @link OutputStream }.
```

```
* <p>
```

```
* This class may be overridden to provide the commit functionality.
```

```
*
```

```
* @author Paul.Sandoz@Sun.Com
```

```
*/
```

```
public abstract class CommittingOutputStream extends OutputStream {
```

```
 private OutputStream o;
```

```
 private boolean isCommitted;
```

```
/**
```

```
* Construct a new instance.
```

```
* <p>
```

```
* The method { @link #getOutputStream() } MUST be overridden
```

```
* to return an output stream.
```

```
*/
```

```
public CommittingOutputStream() {
}
```

```
/**
```

```
* Construct a new instance with an output stream to adapt.
```

```
*
```

```
* @param o the adapted output stream.
```

```
* @throws IllegalArgumentException if <code>o</code> is null.
```

```
*/
```

```
public CommittingOutputStream(OutputStream o) {
 if (o == null)
```

```

 throw new IllegalArgumentException();

 this.o = o;
 }

 @Override
 public void write(byte b[]) throws IOException {
 commitWrite();
 o.write(b);
 }

 @Override
 public void write(byte b[], int off, int len) throws IOException {
 commitWrite();
 o.write(b, off, len);
 }

 public void write(int b) throws IOException {
 commitWrite();
 o.write(b);
 }

 @Override
 public void flush() throws IOException {
 commitWrite();
 o.flush();
 }

 @Override
 public void close() throws IOException {
 commitWrite();
 o.close();
 }

 private void commitWrite() throws IOException {
 if (!isCommitted) {
 isCommitted = true;

 commit();

 if (o == null)
 o = getOutputStream();
 }
 }

 /**
 * Get the adapted output stream.
 * <p>

```

```

* This method MUST be overridden if the empty constructor is
* utilized to construct an instance of this class.
*
* @return the adapted output stream.
* @throws java.io.IOException
*/
protected OutputStream getOutputStream() throws IOException {
 throw new IllegalStateException();
}

/**
* Perform the commit functionality.
*
* @throws java.io.IOException
*/
protected abstract void commit() throws IOException;
};
/*
* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
*
* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.
*
* The contents of this file are subject to the terms of either the GNU
* General Public License Version 2 only ("GPL") or the Common Development
* and Distribution License("CDDL") (collectively, the "License"). You
* may not use this file except in compliance with the License. You can
* obtain a copy of the License at
* http://glassfish.java.net/public/CDDL+GPL_1_1.html
* or packager/legal/LICENSE.txt. See the License for the specific
* language governing permissions and limitations under the License.
*
* When distributing the software, include this License Header Notice in each
* file and include the License file at packager/legal/LICENSE.txt.
*
* GPL Classpath Exception:
* Oracle designates this particular file as subject to the "Classpath"
* exception as provided by Oracle in the GPL Version 2 section of the License
* file that accompanied this code.
*
* Modifications:
* If applicable, add the following below the License Header, with the fields
* enclosed by brackets [] replaced by your own identifying information:
* "Portions Copyright [year] [name of copyright owner]"
*
* Contributor(s):
* If you wish your version of this file to be governed by only the CDDL or
* only the GPL Version 2, indicate your decision by adding "[Contributor]
* elects to include this software in this distribution under the [CDDL or GPL

```



\* Version 2] license." If you don't indicate a single choice of license, a  
\* recipient has the option to distribute your version of this file under  
\* either the CDDL, the GPL Version 2 or to extend the choice of license to  
\* its licensees as provided above. However, if you add GPL Version 2 code  
\* and therefore, elected the GPL Version 2 license, then the option applies  
\* only if the new code is made subject to such option by the copyright  
\* holder.  
\*/

```
package com.sun.jersey.client.impl;
```

```
import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;
```

```
import javax.ws.rs.core.MultivaluedMap;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
```

```
public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
 private Map<String, Object> properties;
```

```
 private URI uri;
```

```
 private String method;
```

```
 private Object entity;
```

```
 private final MultivaluedMap<String, Object> metadata;
```

```
 private ClientRequestAdapter adapter;
```

```
 public ClientRequestImpl(URI uri, String method) {
 this(uri, method, null, null);
 }
}
```

```
 public ClientRequestImpl(URI uri, String method, Object entity) {
 this(uri, method, entity, null);
 }
}
```

```
 public ClientRequestImpl(URI uri, String method,
 Object entity, MultivaluedMap<String, Object> metadata) {
 this.uri = uri;
 this.method = method;
```

```

 this.entity = entity;
 this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
 this.adapter = this;
}

public Map<String, Object> getProperties() {
 if (properties == null)
 properties = new HashMap<String, Object>();

 return properties;
}

public void setProperties(Map<String, Object> properties) {
 this.properties = properties;
}

public URI getURI() {
 return uri;
}

public void setURI(URI uri) {
 this.uri = uri;
}

public String getMethod() {
 return method;
}

public void setMethod(String method) {
 this.method = method;
}

public Object getEntity() {
 return entity;
}

public void setEntity(Object entity) {
 this.entity = entity;
}

public MultivaluedMap<String, Object> getMetadata() {
 return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
 return metadata;
}

```

```

public ClientRequestAdapter getAdapter() {
 return adapter;
}

public void setAdapter(ClientRequestAdapter adapter) {
 this.adapter = (adapter != null) ? adapter : this;
}

@Override
public ClientRequest clone() {
 return new ClientRequestImpl(this.uri, this.method,
 this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
 MultivaluedMap<String, Object> clone = new OutBoundHeaders();
 for (Map.Entry<String, List<Object>> e : md.entrySet()) {
 clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
 }
 return clone;
}

// ClientRequestAdapter

public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
 return out;
}
}
/*
* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
*
* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.
*
* The contents of this file are subject to the terms of either the GNU
* General Public License Version 2 only ("GPL") or the Common Development
* and Distribution License("CDDL") (collectively, the "License"). You
* may not use this file except in compliance with the License. You can
* obtain a copy of the License at
* http://glassfish.java.net/public/CDDL+GPL_1_1.html
* or packager/legal/LICENSE.txt. See the License for the specific
* language governing permissions and limitations under the License.
*
* When distributing the software, include this License Header Notice in each
* file and include the License file at packager/legal/LICENSE.txt.
*
* GPL Classpath Exception:
* Oracle designates this particular file as subject to the "Classpath"

```

\* exception as provided by Oracle in the GPL Version 2 section of the License  
\* file that accompanied this code.

\*

\* Modifications:

\* If applicable, add the following below the License Header, with the fields  
\* enclosed by brackets [] replaced by your own identifying information:

\* "Portions Copyright [year] [name of copyright owner]"

\*

\* Contributor(s):

\* If you wish your version of this file to be governed by only the CDDL or  
\* only the GPL Version 2, indicate your decision by adding "[Contributor]  
\* elects to include this software in this distribution under the [CDDL or GPL  
\* Version 2] license." If you don't indicate a single choice of license, a  
\* recipient has the option to distribute your version of this file under  
\* either the CDDL, the GPL Version 2 or to extend the choice of license to  
\* its licensees as provided above. However, if you add GPL Version 2 code  
\* and therefore, elected the GPL Version 2 license, then the option applies  
\* only if the new code is made subject to such option by the copyright  
\* holder.

\*/

```
package com.sun.ws.rs.ext;
```

```
import com.sun.jersey.core.spi.factory.AbstractRuntimeDelegate;
```

```
import javax.ws.rs.core.Application;
```

```
import javax.ws.rs.ext.RuntimeDelegate;
```

```
/**
```

\* A default client-based and hardcoded implementation of  
\* { @link RuntimeDelegate } that will be instantiated if all look up mechanisms  
\* fail to find an instance.

\* <p>

\* A hardcoded reference to this class name occurs in the { @link RuntimeDelegate }  
\* class present in the JAX-RS api jar.

\*

\* @author Paul.Sandoz@Sun.Com

```
*/
```

```
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {
```

```
 @Override
```

```
 public <T> T createEndpoint(Application application, Class<T> endpointType)
```

```
 throws IllegalArgumentException, UnsupportedOperationException {
```

```
 throw new UnsupportedOperationException();
```

```
 }
```

```
}
```

# 1.447 jersey-common 2.16

## 1.447.1 Available under license :

CDDL+GPL License

[http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

# 1.448 jersey-container-servlet 2.16

## 1.448.1 Available under license :

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

Copyright (c) 2012-2015 Oracle and/or its affiliates. All rights reserved.

The contents of this file are subject to the terms of either the GNU General Public License Version 2 only ("GPL") or the Common Development and Distribution License("CDDL") (collectively, the "License"). You may not use this file except in compliance with the License. You can obtain a copy of the License at [http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html) or <packager/legal/LICENSE.txt>. See the License for the specific language governing permissions and limitations under the License.

When distributing the software, include this License Header Notice in each file and include the License file at <packager/legal/LICENSE.txt>.

GPL Classpath Exception:

Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the GPL Version 2 section of the License file that accompanied this code.

Modifications:

If applicable, add the following below the License Header, with the fields enclosed by brackets [] replaced by your own identifying information:  
"Portions Copyright [year] [name of copyright owner]"

Contributor(s):

If you wish your version of this file to be governed by only the CDDL or only the GPL Version 2, indicate your decision by adding "[Contributor] elects to include this software in this distribution under the [CDDL or GPL Version 2] license." If you don't indicate a single choice of license, a recipient has the option to distribute your version of this file under either the CDDL, the GPL Version 2 or to extend the choice of license to its licensees as provided above. However, if you add GPL Version 2 code and therefore, elected the GPL Version 2 license, then the option applies only if the new code is made subject to such option by the copyright holder.

# 1.449 jersey-container-servlet-core 2.16

## 1.449.1 Available under license :

CDDL+GPL License

[http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

# 1.450 jersey-core 1.9

## 1.450.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

### 1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

### 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or

portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

#### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

#### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

#### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

#### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the



terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

## 4. Versions of the License.

### 4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

## 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION.

THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

## 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

## 8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48

C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

## 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

## 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

-----

### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307  
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more

than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software

distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

#### Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice



This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## "CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

/\*

\* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

\*

\* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.

\*

\* The contents of this file are subject to the terms of either the GNU

\* General Public License Version 2 only ("GPL") or the Common Development

\* and Distribution License("CDDL") (collectively, the "License"). You

\* may not use this file except in compliance with the License. You can

\* obtain a copy of the License at

\* [http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

\* or [packager/legal/LICENSE.txt](#). See the License for the specific

\* language governing permissions and limitations under the License.

\*

\* When distributing the software, include this License Header Notice in each

\* file and include the License file at [packager/legal/LICENSE.txt](#).

\*

\* GPL Classpath Exception:

\* Oracle designates this particular file as subject to the "Classpath"

\* exception as provided by Oracle in the GPL Version 2 section of the License

\* file that accompanied this code.

\*

\* Modifications:

\* If applicable, add the following below the License Header, with the fields

\* enclosed by brackets [] replaced by your own identifying information:

\* "Portions Copyright [year] [name of copyright owner]"

\*  
\* Contributor(s):  
\* If you wish your version of this file to be governed by only the CDDL or  
\* only the GPL Version 2, indicate your decision by adding "[Contributor]  
\* elects to include this software in this distribution under the [CDDL or GPL  
\* Version 2] license." If you don't indicate a single choice of license, a  
\* recipient has the option to distribute your version of this file under  
\* either the CDDL, the GPL Version 2 or to extend the choice of license to  
\* its licensees as provided above. However, if you add GPL Version 2 code  
\* and therefore, elected the GPL Version 2 license, then the option applies  
\* only if the new code is made subject to such option by the copyright  
\* holder.  
\*/

## 1.451 jersey-guava 2.16

### 1.451.1 Available under license :

CDDL+GPL License

[http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

## 1.452 jersey-json 1.9

### 1.452.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

#### 1. Definitions.

- 1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.
- 1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
- 1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. "Executable" means the Covered Software in any form other than Source Code.
- 1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.
- 1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. "License" means this document.
- 1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the

initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

### 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

#### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

#### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

#### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

## 4. Versions of the License.

### 4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may

create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

## 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

## 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES

FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

#### 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

#### 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

-----

#### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307  
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.



## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather,

the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## "CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

/\*

\* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

\*

\* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.

\*

\* The contents of this file are subject to the terms of either the GNU

\* General Public License Version 2 only ("GPL") or the Common Development

\* and Distribution License("CDDL") (collectively, the "License"). You

\* may not use this file except in compliance with the License. You can

\* obtain a copy of the License at

\* [http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

\* or `packager/legal/LICENSE.txt`. See the License for the specific

\* language governing permissions and limitations under the License.

\*  
 \* When distributing the software, include this License Header Notice in each  
 \* file and include the License file at packager/legal/LICENSE.txt.  
 \*  
 \* GPL Classpath Exception:  
 \* Oracle designates this particular file as subject to the "Classpath"  
 \* exception as provided by Oracle in the GPL Version 2 section of the License  
 \* file that accompanied this code.  
 \*  
 \* Modifications:  
 \* If applicable, add the following below the License Header, with the fields  
 \* enclosed by brackets [] replaced by your own identifying information:  
 \* "Portions Copyright [year] [name of copyright owner]"  
 \*  
 \* Contributor(s):  
 \* If you wish your version of this file to be governed by only the CDDL or  
 \* only the GPL Version 2, indicate your decision by adding "[Contributor]  
 \* elects to include this software in this distribution under the [CDDL or GPL  
 \* Version 2] license." If you don't indicate a single choice of license, a  
 \* recipient has the option to distribute your version of this file under  
 \* either the CDDL, the GPL Version 2 or to extend the choice of license to  
 \* its licensees as provided above. However, if you add GPL Version 2 code  
 \* and therefore, elected the GPL Version 2 license, then the option applies  
 \* only if the new code is made subject to such option by the copyright  
 \* holder.  
 \*/

## 1.453 jersey-media-jaxb 2.16

### 1.453.1 Available under license :

CDDL+GPL License

[http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

## 1.454 jersey-server 1.9

### 1.454.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

#### 1. Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files

containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable means the Covered Software in any form other than Source Code.

1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License means this document.

1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

### 2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or

without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

## 2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

## 3. Distribution Obligations.

### 3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.



### 3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

### 3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

### 3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

## 4. Versions of the License.

### 4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

#### 4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

#### 4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

### 5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections

2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

#### 7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

#### 9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

#### 10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

#### NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no

warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your

work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you

permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be

guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA



Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

/\*

\* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

\*

\* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.

\*

\* The contents of this file are subject to the terms of either the GNU  
\* General Public License Version 2 only ("GPL") or the Common Development

\* and Distribution License("CDDL") (collectively, the "License"). You

\* may not use this file except in compliance with the License. You can

\* obtain a copy of the License at

\* [http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

\* or packager/legal/LICENSE.txt. See the License for the specific

\* language governing permissions and limitations under the License.

\*

\* When distributing the software, include this License Header Notice in each

\* file and include the License file at packager/legal/LICENSE.txt.

\*

\* GPL Classpath Exception:

\* Oracle designates this particular file as subject to the "Classpath"

\* exception as provided by Oracle in the GPL Version 2 section of the License

\* file that accompanied this code.

\*

\* Modifications:

\* If applicable, add the following below the License Header, with the fields

\* enclosed by brackets [] replaced by your own identifying information:  
\* "Portions Copyright [year] [name of copyright owner]"  
\*  
\* Contributor(s):  
\* If you wish your version of this file to be governed by only the CDDL or  
\* only the GPL Version 2, indicate your decision by adding "[Contributor]  
\* elects to include this software in this distribution under the [CDDL or GPL  
\* Version 2] license." If you don't indicate a single choice of license, a  
\* recipient has the option to distribute your version of this file under  
\* either the CDDL, the GPL Version 2 or to extend the choice of license to  
\* its licensees as provided above. However, if you add GPL Version 2 code  
\* and therefore, elected the GPL Version 2 license, then the option applies  
\* only if the new code is made subject to such option by the copyright  
\* holder.  
\*/

## 1.455 Jets3t 0.7.1

### 1.455.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix

below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute

must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by

brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

/\*

\* jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)

\* This is a java.net project, see <https://jets3t.dev.java.net/>

\*

\* Copyright 2006 James Murty

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

/\*

\* jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)

\* This is a java.net project, see <https://jets3t.dev.java.net/>

\*

\* Copyright 2009 Doug MacEachern

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

- \*
- \* Unless required by applicable law or agreed to in writing, software
- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.
- \*/

# 1.456 jettison 1.1

## 1.456.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a

copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of



this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2006 Envoi Solutions LLC

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.457 Jetty :: Continuation 8.1.14.v20131031

## 1.457.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such

third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any

actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this

Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# 1.458 jetty-http 8.1.14.v20131031

## 1.458.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.



"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

## 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

## 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC  
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM  
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
  - i) changes to the Program, and
  - ii) additions to the Program;where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself

or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

## 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it

in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
  - b) a copy of this Agreement must be included with each copy of the Program.
- Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

#### 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,

EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

// =====

// Copyright (c) 1995-2013 Mort Bay Consulting Pty. Ltd.

// -----

// All rights reserved. This program and the accompanying materials

// are made available under the terms of the Eclipse Public License v1.0

// and Apache License v2.0 which accompanies this distribution.

//

// The Eclipse Public License is available at

// <http://www.eclipse.org/legal/epl-v10.html>

```
//
// The Apache License v2.0 is available at
// http://www.opensource.org/licenses/apache2.0.php
//
// You may elect to redistribute this code under either of these licenses.
// =====
```

# 1.459 jetty-jndi 8.1.14.v20131031

## 1.459.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications

or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

## 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.



You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC  
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM  
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

## 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
  - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
  - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
  - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
  - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
  - b) a copy of this Agreement must be included with each copy of the Program.
- Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

## 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

```
// =====
// Copyright (c) 1995-2013 Mort Bay Consulting Pty. Ltd.
// -----
// All rights reserved. This program and the accompanying materials
// are made available under the terms of the Eclipse Public License v1.0
// and Apache License v2.0 which accompanies this distribution.
//
// The Eclipse Public License is available at
// http://www.eclipse.org/legal/epl-v10.html
//
// The Apache License v2.0 is available at
// http://www.opensource.org/licenses/apache2.0.php
//
// You may elect to redistribute this code under either of these licenses.
// =====
```

# 1.460 jetty-plus 8.1.14.v20131031

## 1.460.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been

received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

## 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

## 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

## 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

## 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

## 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

## 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]



Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.  
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC  
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM  
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:

- i) changes to the Program, and

- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the

combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any

actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this

Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

```
// =====
// Copyright (c) 1995-2013 Mort Bay Consulting Pty. Ltd.
// -----
// All rights reserved. This program and the accompanying materials
// are made available under the terms of the Eclipse Public License v1.0
// and Apache License v2.0 which accompanies this distribution.
//
// The Eclipse Public License is available at
// http://www.eclipse.org/legal/epl-v10.html
//
// The Apache License v2.0 is available at
// http://www.opensource.org/licenses/apache2.0.php
//
// You may elect to redistribute this code under either of these licenses.
// =====
```

# 1.461 jetty-security 8.1.14.v20131031

## 1.461.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such

license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or

otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

About This Content

19 May, 2009

License

The Eclipse Foundation makes available all content in this plug-in ("Content"). The Content is dual licensed and is provided to you under the terms and conditions of the Eclipse Public License Version 1.0 ("EPL") as well as the Apache Software License Version 2.0. A copy of the EPL is available at <http://www.eclipse.org/legal/epl-v10.html>. A copy of the ASL is available at <http://www.apache.org/licenses/LICENSE-2.0.html>. For purposes of the EPL, "Program" will mean the Content.

If you did not receive this Content directly from the Eclipse Foundation, the Content is being redistributed by

another party ("Redistributor") and different terms and conditions may apply to your use of any object code in the Content. Check the Redistributor's license that was provided with the Content. If no such license exists, contact the Redistributor. Unless otherwise indicated below, the terms and conditions of the EPL still apply to any source code in the Content and such source code may be obtained at <http://www.eclipse.org>.

jetty-util artifact only:

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform,



distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

#### 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED

HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# 1.462 jetty-server 8.1.14.v20131031

## 1.462.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

#### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.  
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
  - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
  - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
  - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
  - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay



any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the

Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

```
// =====
// Copyright (c) 1995-2013 Mort Bay Consulting Pty. Ltd.
// -----
// All rights reserved. This program and the accompanying materials
// are made available under the terms of the Eclipse Public License v1.0
// and Apache License v2.0 which accompanies this distribution.
//
// The Eclipse Public License is available at
// http://www.eclipse.org/legal/epl-v10.html
//
// The Apache License v2.0 is available at
// http://www.opensource.org/licenses/apache2.0.php
//
// You may elect to redistribute this code under either of these licenses.
// =====
```

## 1.463 jetty-servlet 8.1.14.v20131031

### 1.463.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf

and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

About This Content

19 May, 2009

License

The Eclipse Foundation makes available all content in this plug-in ("Content"). The Content is dual licensed and is provided to you under the terms and conditions of the Eclipse Public License Version 1.0 ("EPL") as well as the Apache Software License Version 2.0. A copy of the EPL is available at <http://www.eclipse.org/legal/epl-v10.html>. A copy of the ASL is available at <http://www.apache.org/licenses/LICENSE-2.0.html>. For purposes of the EPL, "Program" will mean the Content.

If you did not receive this Content directly from the Eclipse Foundation, the Content is being redistributed by another party ("Redistributor") and different terms and conditions may apply to your use of any object code in the Content. Check the Redistributor's license that was provided with the Content. If no such license exists, contact the Redistributor. Unless otherwise indicated below, the terms and conditions of the EPL still apply to any source code in the Content and such source code may be obtained at <http://www.eclipse.org>.

jetty-util artifact only:

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is

granted provided that the copyright notice appears in all copies.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who

includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes



such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# 1.464 jetty-util 8.1.14.v20131031

## 1.464.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

#### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC  
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM  
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

#### 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
  - i) changes to the Program, and
  - ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

## 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
  - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including

warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

- ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
- iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
- iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of

program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

// =====

// Copyright (c) 1995-2013 Mort Bay Consulting Pty. Ltd.

```
// -----
// All rights reserved. This program and the accompanying materials
// are made available under the terms of the Eclipse Public License v1.0
// and Apache License v2.0 which accompanies this distribution.
//
// The Eclipse Public License is available at
// http://www.eclipse.org/legal/epl-v10.html
//
// The Apache License v2.0 is available at
// http://www.opensource.org/licenses/apache2.0.php
//
// You may elect to redistribute this code under either of these licenses.
// =====
* License information for Bjoern Hoehrmann's code:
*
* Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal
* in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell
* copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
conditions:
*
* The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
* FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
* IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

# 1.465 jetty-webapp 8.1.14.v20131031

## 1.465.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1



through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing,

shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

### About This Content

19 May, 2009

### License

The Eclipse Foundation makes available all content in this plug-in ("Content"). The Content is dual licensed and is provided to you under the terms and conditions of the Eclipse Public License Version 1.0 ("EPL") as well as the Apache Software License Version 2.0. A copy of the EPL is available at <http://www.eclipse.org/legal/epl-v10.html>. A copy of the ASL is available at <http://www.apache.org/licenses/LICENSE-2.0.html>. For purposes of the EPL, "Program" will mean the Content.

If you did not receive this Content directly from the Eclipse Foundation, the Content is being redistributed by

another party ("Redistributor") and different terms and conditions may apply to your use of any object code in the Content. Check the Redistributor's license that was provided with the Content. If no such license exists, contact the Redistributor. Unless otherwise indicated below, the terms and conditions of the EPL still apply to any source code in the Content and such source code may be obtained at <http://www.eclipse.org>.

jetty-util artifact only:

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform,

distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

#### 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED

HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# 1.466 jetty-xml 8.1.14.v20131031

## 1.466.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to



You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and  
limitations under the License.

About This Content

19 May, 2009

License

The Eclipse Foundation makes available all content in this plug-in ("Content"). The Content is dual licensed and is provided to you under the terms and conditions of the Eclipse Public License Version 1.0 ("EPL") as well as the Apache Software License Version 2.0. A copy of the EPL is available at <http://www.eclipse.org/legal/epl-v10.html>. A copy of the ASL is available at <http://www.apache.org/licenses/LICENSE-2.0.html>. For purposes of the EPL, "Program" will mean the Content.

If you did not receive this Content directly from the Eclipse Foundation, the Content is being redistributed by another party ("Redistributor") and different terms and conditions may apply to your use of any object code in the Content. Check the Redistributor's license that was provided with the Content. If no such license exists, contact the Redistributor. Unless otherwise indicated below, the terms and conditions of the EPL still apply to any source code in the Content and such source code may be obtained at <http://www.eclipse.org>.

jetty-util artifact only:

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
  - i) changes to the Program, and
  - ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

#### 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# 1.467 jline 0.9.94

## 1.467.1 Available under license :

/\*

\* Copyright (c) 2002-2007, Marc Prud'hommeaux. All rights reserved.

\*

\* This software is distributable under the BSD license. See the terms of the

\* BSD license in the documentation provided with this software.

\*/

From: <http://jline.sourceforge.net/>

## License and Terms of Use

JLine is distributed under the BSD license, meaning that you are completely free to redistribute, modify, or sell it with almost no restrictions. For more information on the BSD license, see <http://www.opensource.org/licenses/bsd-license.php>.

For information on obtaining the software under another license, contact the copyright holder: [mwp1@cornell.edu](mailto:mwp1@cornell.edu).

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.468 JLine - Java console input library 0.9.94

## 1.468.1 Available under license :

Copyright (c) 2002-2006, Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer

in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.469 Jna 3.2.4

### 1.469.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether



this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or

other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add



an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
/* Copyright (c) 2007 Timothy Wall, All Rights Reserved
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2.1 of the License, or (at your option) any later version.
* <p/>
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Lesser General Public License for more details.
*/
```

## 1.470 joda-time 2.8.2

### 1.470.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====

= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =

=====

This product includes software developed by  
Joda.org (<http://www.joda.org/>).

# 1.471 jpackage-utils 1.7.5 :3.12.13.amzn1

## 1.471.1 Available under license :

Copyright (c) 2000-2010, JPackage Project  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. Neither the name of the JPackage Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.472 jquery-rails 3.1.4

### 1.472.1 Available under license :

The MIT License

Copyright (c) 2010 Andre Arko

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



# 1.473 JSch 0.1.42

## 1.473.1 Available under license :

JSch 0.0.\* was released under the GNU LGPL license. Later, we have switched over to a BSD-style license.

-----  
Copyright (c) 2002,2003,2004,2005,2006,2007,2008,2009 Atsuhiko Yamanaka, JCraft,Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.474 json 20141113

## 1.474.1 Available under license :

Copyright (c) 2002 JSON.org

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.475 json 1.8.3

### 1.475.1 Available under license :

```
{
 "cells": [
 {
 "cell_type": "code",
 "execution_count": 1,
 "metadata": {
 "collapsed": false
 },
 "outputs": [
 {
 "name": "stdout",
 "output_type": "stream",
 "text": [
 "Using matplotlib backend: MacOSX\n"
]
 },
 {
 "data": {
 "text/plain": [
 "[<matplotlib.lines.Line2D at 0x10ce05350>]"
]
 },
 "execution_count": 1,
 "metadata": {},
 "output_type": "execute_result"
 }
],
 "source": [
 "# Should pop up a GUI window\n",
 "%matplotlib\n",
 "import matplotlib.pyplot as plt\n",

```



"JM0TT7b1s6Opmd7RgB498X13LahjvKC7JcXvT0jliRkiRJ0hzXMzzOA/tb+eWLJwGoL81la0Oc\n",  
"VXXFIS87c0YsSZIKSZKkOSoTBDz6fBdfPdBK/2ia7FiET69cxCdWLiInFg173lxxYknSOBjuuuuC\n",  
"niBpDvK1RdJ08LVFmr9ePTnMjqYUzxfBGBVbTHbGuupK80Ledm5MWJj0jn44Ac/GPYESXOQry2S\n",  
"poOvLdL8Mzye5uHD7Xz/qQ7SAZTnZ3H7xjreeVE5kR18cPvbMWJjkiRkiTNEXuO9XLPnhQdA+NE\n",  
"gA9esZDPr62hKhf2J6DZ/08gSZIKSZI0z3UMjHHvnmaajvUCcHFFPnc1xrm8qjDkZVPHiCVJkiRJ\n",  
"kjRLpTMBP3zmBA893sbIRIb87Cg3ranhw8sqiUVn76WDb8aIJUmSJEmSNAs92zHI910pXjk5DMDm\n",  
"C8q4Y1MdIYU5IS+bHkYsSZIKSZKkWaR/dIKvH2jip891EgCLinK4s6GeDYtLw542rYxYkiRkiRJ\n",  
"s0AQBpZby93cv7eFnpEJYhG4fsUiblhVTV5WNOx5086IJUmSJEmSNMM1946wsynF4dYBAJYvKmTb\n",  
"5jgXIOeHvOz8MWJjkiRkiTNUGMTGb5z5DjfpXKc8UxASW6MWzfU8d5LFxCNzK2D29+OEUuSJEmS\n",  
"JGkGOTsX86mZlr6RgF432UL+ML6OKrz5mfOmZ//1JkSZIKSTPUyaFx7t/Xwq9f7gZgSVkeWxvj\n",  
"rKgpCnlZuIxYkiRkiRJM0A6E/Cz5zp58GAbg2NpcmMRblhdzceXV5Edm/sHt78dI5YkSZIKSVLI\n",  
"XuocYntTiudPDAGwrr6EOxvrqSnODXnZzGHEkiRkiRJCsnQWJqHDrXxo2dOkAmgoiCbL22qZ/MF\n",  
"pUTm2cHtb8eIJUmSJEmSdJ4FQUdT718eU8znUPjRCPw0SruXFNDYU5sbDnzUhGLEmSJEmSpPO\n",  
"vX+Ue3Y3sy/VB8DSygK2Nca5dGFByMtmNiOWJEmSJEnSeTCRCfj+Ux3806E2RtMBBdlRbl5Xywu\n",  
"X0gs6qWDb8eIJUmSJEmSNM2ebh9ge1OKY90jALzZojJu21hPRUF2yMtmDyOWJEmSJEnSNOkmeCr\n",  
"+1v5+QtdANSW5HBnQ5y19SUhL5t9jFiSJEmSJEITLAgCfvniSb6yr4W+0TTZ0QifXLmIT65cRG5W\n",  
"NOx5s5IRS5IkSZIKaQod6x5mR1MzT7UPAHB1bRfBg+LEy/JCXja7GbEkSZIKSZKmwMhEhm8dbif5\n",  
"5HHSAZTmZXHbhjrec0k5kYgHt0+WEUuSJEmSJGmS9qd6Xt3M+39YwB84PIKbl5XS3Gu6WWq+L+k\n",  
"JEmSJEnSOeocHOPevS387tUeAC4sz+OuzYtZtqgw5GVzjxFLkiRkiTpLKUZAT8+eoJ/fLYNofEM\n",  
"eVIRblxdzUeWV5EV9dLB6WDEkiRkiRJOgVpnhhk+64UL3UNA9CwpJQvbaqniqign5GVzmxFLkiRJ\n",  
"kiTpDAyOpfn6wVZ+crSTAKgszObOhjiblpSGPW1eMGJJkiRkiT9CUEQ8NtXerhvbzMnhyeIRuD6\n",  
"5VX81epq8rNjYc+bN4xYkiRkiRjB6Gld5S7d6d4vKUfgGVVhWxrjHNRX7Iy+Yf15YkSZIKSdlb\n",  
"jKUZfO/JDr79RDvj6YDi3Bi3rKvIL5dWEI14cHsYjFiSJEmSJEI/4InWfnY0pWjuHQXgmksXcOv6\n",  
"Wsrzs0NeNr8ZsSRJkiRkoDu4XEe2NfCYy91A1Bfmsu2xjhx1xaHvExgxJkSZIKSfNcJg4+fNd\n",  
"fO1AK/2jabJjET5zdTWJFVXkxKJhz9NpRixJkiRkiRjvvdI1zI6mFEc7BgFYU1fMnQ1x6kpzQ16m\n",  
"NzJiSZIKSZKkeWd4PM03D7Xzg6c7yASwID+LOzbV8+cXlhHx4PYZyYglSZIKSZLmld3HerhndzMn\n",  
"BseJAB9etpDPra2IMCcw9jT9CUYsSZIKSZI0L3QMjHHPnmb2HosF4JKKfP5682IuqywIeZnOhBFL\n",  
"kiRkiTNaROZgB8+3cFDh9oZnchQkB3lpjU1fGhZJbGolw7OFkYsSZIKSZI0Zx09PsiOptd55eQI\n",  
"AH9+YRm3b6xjYWFoyMt0toxYkiRkiRpzukbmeDBg6387LkuAKqLc7izoZ718dKQl+lcGbEkSZIK\n",  
"SdKcEQQBv3qpm/v3tdA7MkFWNELiqio+vaqavKxo2PM0CUYsSZIKSZI0J6R6RtjRIOJ2wAAV1UX\n",  
"sa2xniXl+SEv01QwYkmSJEmSpFldtCLDd44c53tHjjOeCSjNy+LW9bW899IFRC1e3D5XGLEkSZIK\n",  
"SdKsdbC5j7t3p2jtGwPg2qUV3LKulP18k8dc4/+jkiRkiRp1ukaGue+vc389pUeAJaU53FXy5zl\n",  
"1UUhL9N0MWJjkiRkiRjZi50J+OlznTx4oJWh8Qy5sQifXV3Dx66qIivqpYNzmRFLkiRkiTNCi92\n",  
"DrGjKcXzJ4YA2BAvYUtDPdXFuSEv0/1gxJkSZIKSTPa4Fiahx5v45+PniATwMLCbL60qZ7GJaUe\n",  
"3D6PGLekSZIKSdKMFAQBv3uth3v3tNA1NE40Ah9fXslnV9dQkBMLe57OMyOWJEmSJEmacdr6Rr17\n",  
"dzMHmvsAWFpZwF9vjnNxRUHIyxQW15YkSZIKSZoxxtMZHnmqg4cPzOWDijMiXHLulquXVPzIPb\n",  
"5zUjliRkiRjmhGebBtgr1OK13tGAHj3xeV8cUMdCwqyQ16mmcCIJUmSJEmSQtU7MsFX97fw6Asn\n",  
"AagryWVbY5xVdcUhL9NMYsSSJEmSJEmhyAQBv3jhJA/sb6F/NE12NMKnrl7EJ1csIicrGvY8zTBG\n",  
"LEmSJEmSdN691j3Mjl0pnj4+CMCq2iK2NsapL80LeZlmKiOWJEmSJek6b0YmMjx8uJ1HnjxOOoCy\n",  
"vCxu31jHuy4uJxLx4Ha9NSOWJEmSJek6L/a93svdu5s5PjBGBLjuioV8fm0NxbnmCb09/y2RJEmS\n",  
"JEnT6sTgGPfuaWbXa70AXFyRz7bGOFdUFYa8TLOJEUuSJEmSJE2LdCbgR8+c4KFDbQyPZ8jLinLT\n",  
"mho+cmUlsaiXDursGLEkSZIKSdKUe65jkO1NKV7uGgZg8wW13L6xnqqinJCXabYyYkmSJEmSpCkz\n",  
"MDrBgwfb+OmznQTAoqIctjTUs3FxadjTNMsZsSRJkiRj0qQFQcBvXunmvrOtdA9PEIvA9VdV8ZIV\n",  
"1eRnx8KepznAiCVJkiRkiRjialpXeEHU3NHG7tB+DKRYVsa4xz4YL8kJdpLjFiSZIKSZKkczKWzvDd\n",  
"I8f5zpHjjKcDinNjGF9He+7bAHRiAe3a2oZsSRJkiRj0lk73NLPzt0pmntHAfiLSxfwhfW11OV\n",  
"h7xMc5UR5IkSZIKnbHuoXHu39fCv73cDcDisjy2NdaZoqY45GWA64xYkiRkiTpbWWCgJ8918WD\n",  
"B1oZGEuTE4tww6pqr+qiuXNOx5mgeMWJkSZIK6U96uWuI7btSPHdiCIC19cVsbYhTU5Ib8jLN\n",  
"J0YsSZIKSZL0pobH0zz0eBs/fOYEmQAqCrK5Y1Mdf3ZBGREPbtd5ZsSSJEmSJEI/JAgCdh/r5Z49\n",

"zXQOjhONwEurOSmNTUU5sTCnqd5yogISZikSZL+f8f7x7hnT4q9r/cBcNnCArZtjnPZwoKQl2m+\n",  
"M2JkiRjkiQmMgE/eKqDbx5uZ3QiQ0F2lJvX1fKBByxcSi3rpoMJnxJikSZikaZ57pn2A7U0pXuse\n",  
"AeAdF5Vx+4Z6KgzqQ14m/R9GLEmSJEmS5qm+kQm+dqCVf32+C4Ca4hy2NsZZW18S8jLpPzJiSZik\n",  
"SZI0zwrBwC9fPMkD+1vpHZkgKxrhkysX8amV18jNioY9T3pTRixJkiRjkuAR17tH2NGU4sn2AQBW\n",  
"1hSxtTHO4rK8kjdJf5oRS5IkSZKkeWB0IsO3nmgn+WQHE5mA0rwsbttQx3suKScS8eB2zXxGLEmS\n",  
"JEmS5rgDqT7u3p2irX8MgGuXvNdlLulpK8swCmj38t1WSJEmSpDmq3Cc+/Y289tXewC4sDyPbZvj\n",  
"XLmoKORl0tkzYkmSJEmSNMekMwE/ebaTbxszZWg8Q25WIBtXV/PR5VVkRb10ULOTEUuSJEmSpDnk\n",  
"hRNDbG96nRc7hwHYtLiULQ31VBXlhLxMmhwjliRjkiRjC8DgWJpvHGzlx0c7CYDKwmy2NNTTskQs\n",  
"7GnSIDBiSZikSZI0iwVBwL+/2sO9e5sOTRBNAlfX17FZ1dXk58dC3ueNGWMWJikSZikzVKtfaPc\n",  
"vTvFweZ+AJZVfBktMc5FFfkhL5OmnhFLkiRjKqRZZiyd4ZEnO/jWE+2MpQOKcmLcsr6Wa5dWEI14\n",  
"cLvmJiOWJEmSJEmzyJHWfnY0pUj1jgJwzSXl3LqjhvL87JCXSDPLiCVJkiRj0izQMzzOV/a38tiL\n",  
"JwGoL81la2OcVbXFIS+Tzg8jliRjkiRJM1gmCHj0+S6+eqCV/tE02bEIn766mk+sqClnFg17nnTe\n",  
"GLEkSZikSZqhXj05zPzdKY52DAKwuq6YrQ1x6kpzQ14mnX9GLEmSJEmSZpjh8TQPH27n+091kA5g\n",  
"QX4Wt2+s5x0XIRHx4HbNU0YsSZikSZJmkD3HerlnT4qOgXEiwIeWLeRza2ooyvUtvOY3fwVikiRj\n",  
"kjQDdAyM8eU9zew+1gvAJRX53LU5ztLKwpCXSTODEUuSJEmSpBCIMwE/fOYEDz3exshEhoLsKDet\n",  
"qeFDyyqJRb10UPo9I5YkSZikSSF5tmOQ7btSvHjyGIA/u7CMOzbWsbAwJ+R10sxjxJikSZik6Tzr\n",  
"H53gwQot/Oy5LgJgUVEOWxvrWR8vDXuaNGMZsSRjkiRjOk+CIOBXL3Xzlx0t9IxMEItAYsUiPrOq\n",  
"mrysanJzpBnNiCVJkiRj0nmQ6hlh5+4UT7QOALC8upBtjXEuKM8PeZk0OxixJEmSJEmarmMTGb5z\n",  
"5DjfpXKc8UxASW6ML26o472XLiAS8eB26UwZsSRjkiRjmiaPN/exc3czrX2jALzvsGxcur6Okjzf\n",  
"jktny181kiRjkiRNsZND49y/r4Vfv9wNwJKyPLZtjnNVdVHIy6TZy4glSZikSdIUSWcCfvpcJ18\n",  
"2MbgWJrcWIQbVlfz8eVVZMc8uF2aDCOWJEmSJEIT4KXOIbY3pXj+xBAA6+MlbGmop6Y4N+R10txg\n",  
"xJikSZikaRKGxtL846E2/vmZE2QCWfiQzZc21dN4QakHt0tTyIglSZikSdI5CIKAXa/1cu+eZjqH\n",  
"xolG4GPLK71xdQ0F0bGw50lzhFLkiRjKqSz1NY/yj27m9mf6gNgaWUBdzXGuWRhQcjLpLnLiCVJ\n",  
"kiRj0hkaT2f4/tMdPHyondF0QGFOjJvX1vD+yxcSi3rpoDSdjFiSJEmSJJ2Bp9oH2NGU4lj3CADv\n",  
"uric2zbUsaAgO+R10vngxJikSZik6U/oHZngq/tbePSFkwDUluSytaGeNfUIIS+T5hcjliRjkiRj\n",  
"byIIAn7x4kke2NdC32ia7GiET65cxKdWLiInKxr2PGneMwJjkiRjKvQGr3UPs6MpxdPtgwBcXVvE\n",  
"1oY48bK8kjdJ85cRS5IkSZKk00YmMnzcDvJJ4+TDqAsL4vbNtbx7ovLiUQ8uF0KkxFLkiRjkiRg\n",  
"f6qXnU3NHB8YIwJcd/ICPr+uhuJc3zpLM4G/EiVJkiRj81rn4Bj37m3hd6/2AHDRgnzu2hznqrc\n",  
"kJdJ+kNGLEmSJEnSvJTOBPz46Am+8Xgbw+MZ8rKi3Limho9eWUks6qWD0kxjxJikSZikzTvPdQyy\n",  
"oynFS13DADQsKeVLM+qpKsoJeZmkt2LEkiRjkiTNG4Njab5+sJWfHO0kAKqKstmyKc6mJaVhT5P0\n",  
"NoxYkiRjKqQ5LwgCfvNKD/fvbebk8ASxCHz8qipuWVFNfnYs7HmSzoARS5IkSZI0p7X0jrJzd4pD\n",  
"Lf0ALKsq5K7NcS5ckB/yMklnw4glSZikSZqTxtIZvnfON8+cpzxdEBxbowvrKvlfUsriEY8uF2a\n",  
"bYxYkiRjKqQ553BrPzubUjT3jgLw3ksXcOv6Wsrys0NeJlucGbEkSZikSXNG9/A4X9nXwq9e6gYg\n",  
"XprLtsY4K2uLQ14mabKMwJikSZKkWS8TBPzr8118bX8rA2NpcmIRPnN1NYkVvWTHomHPkzQFjFiS\n",  
"JEmSpFnt5a4hdjSleLzjCIC19cXc2RCntiQ35GWSppIRS5IkSZI0Kw2Pp/nmoXZ+8HQHmQAWFGRx\n",  
"x8Z6/vzCMIe3C7NOUYsSZikSdKss/tYD/fsbubE4DjRCHx4WSWfW1tDYU4s7GmSpokRS5IkSZI0\n",  
"axzvH+PLE5rZ83ovAJcuzOeuxsVcVlkQ8jJ082IJUmSJEmas8SYyAT94uoNvHmpndCJDQXaUz6+t\n",  
"5borFhKLeumgNB8YsSRjkiRJM9ozxwfYsSvFq90jALZjwjJu31hPRWF2yMsknU9GLEmSJEnSjNq3\n",  
"MsHXDrTyr893AVBTnModDXHWxUtCXiYpDEYsSZikSdKMEgQBv3qpm/v3tdA7MkFWNEJiRRWfubqa\n",  
"3Kxo2PMkheSIJUmSJEmamV7vGWFN4UojbQMArKguYltjnMXleSEvKxQ2I5YkSZikKXSjExm+/UQ7\n",  
"33uyg4lMQGleFl/cUMs1lywgEvHgdklGLEmSJElSyA4297GzKUVb/xgA1y6t4JZ1tZTk+ZZV0v/h\n",  
"K4IkSZikKRRdQ+Pct7eZ377SA8AF5Xnc1RjnyuqikJdJmomMWJikSZKk8yqdcfXZz5+sFWhsYz\n",  
"5GZF+ezqaj62vIqsqJcOSnpzRixJkiRj0nnzQucQO3aleKFzCICNi0vYsinOouKckJdJmumMWJik\n",  
"SZKkaTc4luYfH2/jx0dPkAlgYWE2WzbV07Ck1IPBjZORI5YkSZikadoEQcDvXu3hy3ubOTk0QTQC\n",  
"H19eyY1rasjPjoU9T9IsYsSSJEmSJE2Ltr5R7t7dzIHmPgAuryzgrs1xLq4oCHmZpNnLiCVJkiRj\n",  
"mLj6QyPPNXBw4fbGUsHFOXEuHldLe+/vIKolw5KOkdGLEmSJEnSIHmyrZ8dTc283jMCwLsvLue2\n",  
"DXWUF2SHvEzSbGfEkiRjkiRNWs/wOA/sb+WXL54EoK4kl22NcVbVFYe8TNJcYcSSJEmSJJ2zTBDw\n",  
"6Asn+er+FvpH02THInx65SI+sWIROVnRsOdJmkOMWJikSZKkc/LqyWF2NqV4+vggAKtqi9nWWE9d\n",

"aV7IyyTNRUYsSZIkSdJZGR5P863D7TzyVAfpAMrzs7h9Yx3vvKiciAe3S5omRixJkiRJ0hnb+3ov\n",  
"9+xu5vjAGBHgg1cs5PNrayjK9e2lpOnlq4wkSZIk6W2dGBzjy7ubaTrWC8DFfFlsa4xzRVVhyMsk\n",  
"zRdGLEmSJEnSWOpnAn70zAkeOtTG8HiG/OwoN62p4cPLKolFvXRQ0vljxJkSZIkvalnOwbZvivF\n",  
"KyeHADh8QR13bKqjsAn5GWS5iMjliRjkiTjpwMTvDgwTZ++mwnAbCoKic7G+rZsLg07GmS5jEj\n",  
"liRjkiQJgCAI+PXL3dy3t4WekQliEbh+xSJUWfVNXIY07HmS5rlJR6xEInEDc2wFlgMRIEU8HPg\n",  
"75LJZNtZPNfngAff5m53JJPJ+89trSRJkiTpzTT3jrCzKcXh1gEAli8qZNVmOBeU54e8TJJOmVTE\n",  
"SiQSWcA3gXFgD/Cr08/5Z8CWU3dJbEomk6+e5VPvAZre4nuHz3GuJEmSJOkNxiYyPfJ43znIEOM\n",  
"ZwKKc2Pcur6Ov7hsAdGIB7dLmjkm+0msDPB3wD8kk8mu338xkUhEgAeAm4H/Btx4ls/7q2Qy+beT\n",  
"3CZJkiRJ+hMOtfsxs6mZlr5RAN532QK+sL6O0jxPnpE080zqlSmZTGaA/ImXw8SicTdnIpYaybz\n",  
"3yFJkiRJmlonh8a5f18Lv365G4DFZXlsa4yzoqYo5GWS9NamM68XnL7t+pP3enN+ZIWSJEmSplgm\n",  
"CPjps508eLCNwbE0ObEIN6yq5vqrqsiOeXC7pJltOiPwJ0/f/vs5PPY/JxKJvwHSnIpgB4EHksnk\n",  
"j6dqncRjkiTNjy93DbF9V4rnTgwBsK6+hDsb6qkpyQ15mSSdmWmJWIEYgNwO3AS2H4WD+0Ffg0c\n",  
"O/3XZcAK4APABxKjxP9KJpN/M8VzJUmsJGnOGhpL89ChNn70zAkyAVQUZPOITfVsvqCUiAe3S5pF\n",  
"pvwVK5FILAN+CxQD1yWTycem4Dk/APyAU9FteTKzfPZMHvfYY48FAktXr57sBEmSJemaVYIgoOIY\n",  
"L1/e00zn4DjRCHx4WSU3rqmhMcW9jxJs9ihQ4cAuOaaa85rCZ/Si54TicRq4DecClifnIqABZBM\n",  
"Jn8KPMyp6PbuqXhOSZIkSZqr2vtH+dtfvMJ/f+xVOgfHuWxhATs/vJQ7NtUbsCTNWIN2OWEikXg\n",  
"8F1gHLg2mUz+eqqe+7STp28Lp/h5JUmsJGIOMMgEfP+pDv7pUBuj6YCC7Cg3r6v1A5cvJBb10kFJ\n",  
"s9uURKxElrEV+AcgBXwgmUwenYrnfYNVp2/P6FJCSZIkSZpPnm4fYHtTimPdIwC886IybtYT0VB\n",  
"dsjLJGlqTCpiJRKJXODLwOc5dQ7W9clksuttHvMQsB74wRsPaU8kEn8P/H0ymWx9w9dvBN7FqUj2\n",  
"6GQ2S5IkSdJc0jcyvVf3t/LzF069FastyeHOHjhr60tCXiZJU2uyn8T6JKcC1gBwBPi/EonEm93v\n",  
"0WQy+cvTf70YuAyofp7/SdgWyKR2Ac8c/prK4ANQB9wQzKZHJvkZkmSJema9YI4JcvnuSB/a30\n",  
"jkyQFY3wyZWL+NTKReRmTenxx5I0I0w2Yv3+oupCYNtb3CfVID65R/8ffAW9/0icC2wDPgEkA+0\n",  
"APcD/zuZTL42yb2SJEmSNOu93j3C9qYUT7UPALCypoitjXEWI+WFvEySps+cPtnvsceCwBWr14d\n",  
"9hrJkiRjmrSriQzfPtxO8qkOjJIBpXlZ3LahjvdcUk4kMqff3kmaQQ4dOgTANddcc15feKbspXNK\n",  
"kiRjkbPgVQfO3enaO8/dcLK+y+v4Oa1tZTk+bZO0vzgg50kSZIkzWBdg+Pcu7eZf3+1B4ALy/O4\n",  
"a/Nili2vfr2GAAAgAEIEQVQqDHmZJJ1fRixJkiRjmoHSmYAfHz3BPz7extB4htysKDetruYjy6v\n",  
"inrpoKT5x4glSZIkSTPMCyeG+H93vc5LXcMabFpSypZn9VQV5YS8TJLCY8SSJEmSpBlicCzNNw62\n",  
"8uOjnQRAZWE2WxrqaVhSFvY0SQqdEUuSJEmSQhYEAb99pYf79jZzenciCaASuX17FX62uJj87FvY8\n",  
"SZoRjFiSJEmSFKLWvIHu3p3iYHM/AMuqCtnWGOeiivYQl0nSzGLEkiRjKqQQjKuzJJ/s4NtPtDOW\n",  
"DijOjXHLulr+cmkF0YgHt0vSGxmxJEmSJOk8e6K1nx1NKZp7RwG45pJybt1QR3l+dsjLJGnmMmJJ\n",  
"kiRJ0nnSPTzOA/tbeezFkwDU1+ayrTHO1bXFIS+TpJnPiCVJkiRJ0ywTBPz8+S6+dqCV/te02bEI\n",  
"n7m6msSKKnJi0bDnSdKsYMSSJEmSpGn0StcwO5pSHO0YBGBNXTF3NsSpK80NeZkkzS5GLEmSJema\n",  
"BsPjab55qJ0fPN1BJoAF+VncvrGed1xURsSD2yXprBmxJEmSJGmK7TnWyz17UnQMjBMBPrxsIZ9b\n",  
"W0thTizsaZIOaxmxJEmSJGmKdAyMcc+eZvYc6wXgkop8/nrzYi6rLah5mSTNfkYsSZIkSZqkiUzA\n",  
"j57u4KFD7YxMzCjJnLTmho+tKySWNRLByVpKhixJEmSJGkSjh4fZefT67xycgSAP7+wjNs31rGw\n",  
"McfkZZI0txixJEmSJOkc9I9O8LUDrfzsuS4AqotzuLohnvXx0pCXsdLcZMSSJEmSpLMQBAG/eqmb\n",  
"+/e10DsyQVY0QuKqKj69qpq8rGjY8yRpzJiSZIkSdIZsvWMsKMpxZG2AQCuci5iW2M9S8rzQ14m\n",  
"SXOfEUuSJEmS3sbYRIbvHDnOd48cZzwTUJib44sb6njvpQuIRDy4XZLOByOWJEmSJP0JB5v7uHt3\n",  
"M619owD85WUVfGF9LSV5vp2SpPPJV11JkiRjehNdQ+Pcv7eZ37zSA8CS8jzuaoyzvLoo5GWSND8Z\n",  
"sSRJkiTpD6QzAT99rpMHD7QyNJ4hNxbhs6tr+NhVvWRFvXRQksJixJkSZKk017sHGJHU4rnTwwB\n",  
"sCFewpaGeqqLc0NeJkkyYkmSJema9wbH0jz0eBv/fPQEmQAWFmTzpYZ6GpeUenC7JM0QRixJkiRJ\n",  
"81YQBPzutR7u3dNC19A40Qh8bHkIN66uoSAnFvY8SdfMGJJkiRJmpfa+ke5Z3cz+1N9ACytLOCu\n",  
"xjiXLCwIeZkk6c0YsSRJkiTNK+PpDI881cG3Drczmg4ozIlxy7parl1aQcyD2yVpxjJiSZIkSZo3\n",  
"nmofYMeuFMd6RgB418X13LahjgUF2SEvkyS9HSOWJEmSpDmvd2SCr+5v4dEXTgJQV5LL1sZ6VteV\n",  
"hLxMknSmjFiSJEmS5qxMEPCLF07ywP4W+kfTZEcfHLIj61chE5WdGw50mSzoIRS5IkSdKc9Fr3\n",  
"MDuaUjzdPgjAqtoitjbGqS/NC3mZJOlcGLEkSZIkzSkjExkePtzOI08eJx1AWV4Wt2+s410XlXOJ\n",  
"eHC7JM1WRixJkiRjC8b+VC87m5o5PjBGBLju8oV8f10Nxbm+9ZGk2c5XckmSJEmz3onBMe7d08Ku\n",  
"13oAuGHbPndtjnNFVWHIyyRJU8WIJUmsJGnWSmcC/vnoCf7x8TaGxzPkZUW5aU0NH7mykljUSwcl\n",

"aS4xYkmSJEmalZ7rGGRHU4qXuoYB2HxBKbdvrKeqKCfkZZKk6WDEkiRjkjSrDIxO8PwDbfzLs50E\n",  
"wKKiHLY01LNxcWnY0yRJ08iIjUmSJGIWCIKA37zSzX17W+geniAWgeuvqulzq6rJz46FPU+SNM2M\n",  
"WJkSZJmVJbeEXbubuZQSz8AVy4qZFtnAsX5Ie8TJJ0vhixJEmSJM1YY+kM3ztnG8fOc54OqA4\n",  
"N8YX1tfxvssWEI14cLskzSdGLEmSJekz0uHwfnY2pWjuHQXgLy5dwBfW11KWnx3yMklSGIxYkiRJ\n",  
"kmaU7qFxrK/hV+91A3A4rI8tjXW6KmOORlkqQwGbEkSZlkzQiZIOBnz3Xx4IFWBsbS5MQi3LCq\n",  
"muuvqil7Fgl7niQpZEYsSZIkSaF7uWuIHU0pnu0YAmBtfTFbG+LUIOSGvEySNFMYsSRJkiSFZng8\n",  
"zTcPtfODpZvIBFBRkM0dm+r4swvKiHhwuyTpDxiXJEmSJiWi6bUe7tnTTOfgONEIfOTKSm5aU0Nh\n",  
"TizsaZKkGciIjUmSJOM8Ot4/xpf3NLPn9V4ALtYwLbNcS5bWBDyMknSTGbeKiRjknReTGQCfvB0\n",  
"B9881M7oRIaC7CifX1vLdVcsJBb10kFJ0p9mxJkSZI07Z5pH2B7U4rXukcAeMdfZdy+oZ6KwuyQ\n",  
"l0mSZgsljRkqRp0zcywdcOtPKvz3cBUFOcw9bGOGvrS0JekmabYxYkiRkqZcEAQ89tJjvKv\n",  
"ld6RCbKiET6xooPX11NblY07HmSpFnliCVJkiRpSr3ePcL03SmOtA0AsLKmiK2NcRaX5YW8TJI0\n",  
"mxmxJEmSJE2J0YkM33qineSTHUXkAkzsrhtQx3vuaScSMSD2yVJk2PEkiRjkjRpB5v72NmUoq1\n",  
"DIBrlZwy7paSvJ8yyFJmhr+jjJkiTpnHUNjnPf3mZ++2oPABeW57Ftc5wrFxFvEySNNcYsSRJ\n",  
"kiSdtXQm4F+e7eTrB1sZGs+QmxXls6ur+djyKrKiXjooSZp6RixJkiRjZ+WFziG273qdFzuHAdi4\n",  
"uIQtm+IsKs4JeZkkaS4zYkmSJEk6I4Njab5xsl2fPHUCtACVhdlsaainYUIZ2NMkSfOAEUuSJEnS\n",  
"nxQEAb97tYcv723m5NAE0Qhcf1UVn11dTX52LOx5kqR5woglSZIk6S219Y2yc3eKg839AFxRVcC2\n",  
"xjgXVxSEvEySNN8YsSRJkiT9B2PpDI882cG3nmhnLB1QlBPjlvW1XLu0gmjEg9slSeefEUuSJEnS\n",  
"H3myrZ/tu1KkekcBeM815XxxfR3lBdkhL5MkzWdGLEmSJEkA9AyP88D+Vn754kka6ktz2doYZ1Vt\n",  
"ccjLJEkyYkmSJEnzXiYiePT5Lr56oJX+0TTZsQifvrqat6yolicWDXueJEmAEUuSJema1149OcyO\n",  
"phTPHB8EYHVdMVsbtSV5oa8TJKkP2bEkiRjkuah4fE0Dx9u5/tPdZAOoDw/i9s31vPOi8qIeHC7\n",  
"JGkGMmJkiRJ88yeY73csydFx8A4EeBDyxbyuTU1FOX69kCSNHP5u5QkSZI0T3QMjHHvnmaajvUC\n",  
"cElFPndtjrO0sjDkZiKvT0jliRkjTHpTMBP3zmBA893sbIRIb87CifW1PDh5ZVEot66aAkaXYw\n",  
"YkmSJElz2LMdg2zflKvK8MAbL6gjC9tqmNhYU7IyyRJOjtGLEmSJGkO6h+d4OsH2vjpg50EwKKi\n",  
"HO5sqGfD4tKwp0mSdE6MWJkSdlcEgQB//ZyN/fvbaFnZIJYBBIRfVgZVdXkZUXDnidJ0jkzYkmS\n",  
"JElzRHPvCDubUhxuHQBgeXUh2xrjXFceH/IySZImz4glSZIkzXJjExm+c+Q43z1ynPFMQElujFs3\n",  
"IPEXly4gEvHgdknS3GDEkiRjkmaxx5v72Lm7mda+UQDed9kCvrC+jtI8/6gvSZpb/J1NkiRjmoVO\n",  
"Do1z/74Wfv1yNwBLyvLYtjnOVdVFIS+TJGI6GLEkSZKkWSSdCfjZc508eLCNwbE0ubEIN6yu5uPL\n",  
"q8iOeXC7JGnuMmJJkiRJs8RLnUNsb0rx/lkhanbHS9jSUE9NcW7IyyRjmn5GLEmSJGmGGxpL89Ch\n",  
"Nn70zAkyAVQUZPOITfVsvqDUg9slSfOGEUuSJema0YIgoOm1Xr68p5nOoXGIEfjo8kpuW11DQU4s\n",  
"7HmSJJ1XRixJkiRpBmrvH+We3c3sS/UBsLSyglLsa41yysCDkZZIkhcOIjUmSJM0gE5mA7z/VwT8d\n",  
"amM0HVcYE+PmtTW8//KfXKJeOihJmr+MWJkSdIM8XT7ANubUhzrHgHgXReXc9uGOhYUZIE8TJKk\n",  
"8BmxJEmSpJD1jUzw1f2t/PyFLgBqS3LZ2IDPmvqSkJdJkRzGLEkSZKkkARBwC9fPMIX9rXQN5om\n",  
"OxrhkysX8amVi8jJioY9T5KkGcWIjUmSJIXgWPcwO5qaeap9AICra4vY2hAnXpYX8jJkmYmI5Yk\n",  
"SZJ0Ho1MZPjW4XaSTx4nHUBZXha3bazj3ReXE4I4cLskSW/FiCVJkiSdJ/tTvdy9u5n2/jEAPnB5\n",  
"BTEvq6U41z+WS5L0dvzdUpIkSZpnmYnJ3Lu3hd+92gPARQvy2Na4mGWLcKNeJknS7GHEkiRjkqZ\n",  
"OhPw46Mn+MbjbQyPZ8jLinLjmho+emUlsaiXDkqSdDaMWJkSdI0eP7EINT3pXipaxiAhiWlfGIT\n",  
"PVVFOSEvkyRpdjJiSZikSVNocCzn1w+28pOjnQRAVVE2WzbF2bSkNOxpkiTNakYsSZikaQoEQcBv\n",  
"X+nhvr3NnByeIBqB65dX8Verq8nPjoU9T5KkWc+IJUmSJE1SS+8od+9O8XhLPwDLqgq5a3OcCxfk\n",  
"h7xMkqS5w4glSZIknaOxdIbvPdnBt59oZzwdUJwb4wvrrannf0gqiEQ9ulyRpKhmxJEmSpHPwRGs\n",  
"O5pSNPeOAvDeSxdw6/payvKzQ14mSdLcZMSSJEmSzkL38DgP7GvhsZe6AagvzeWuxjgra4tDXiZJ\n",  
"OtxmxJkSZLOQCYI+PnzXXztQCv9o2lyYhE+c3U116+oIicWDXueJElznhFLkiRjehuvA2zoynF\n",  
"0Y5BANbWF3NnQ5zaktyQl0mSNH8YsSRJkqS3MDye5puH2vnB0x1kAlhQkMUdG+v58wvLiHhwuyRJ\n",  
"55URS5IkSXoTu4/1cM/uZk4MjhMBPrysk+traEwJxb2NemS5iUjliRjKvQHOGbGuGdPM3uO9QJw\n",  
"SUU+f715MZdVfO8TJKk+c2IJUmSJAETmYAfPt3BQ4faGZ3IUJAAd5XNra/ngFQJrB10UJKksBmx\n",  
"JEmSNO89c3yAHbtSvNo9AsA7Lizj9o31VBRmh7xMkiT9nhFLkiRJ81bfyAQPmzlZ891AVBTnMod\n",  
"DXHWxUtCXiZjkt7IiCVJkqR5JwgCfvVSN/fva6F3ZIKsaTEiio+c3U1uVnRsOdJkqQ3YcSSJEnS\n",  
"vJLqGWFHU4ojbQMarKguYltjnMXleSEvkyRjF4oRS5IkSfPC6ESG7xw5zveOHGc8E1Cal8Wt62t5\n",  
"76ULiEQ8uF2SpJnOiCVJkqQ572BzH3fvTtHaNwbAtUrsuGVdLSV5/nFYkqTZwt+1JUmsNGd1DY1z\n",

"395mfvtKDwAXIOdxV2OcK6uLQ14mSZLOlhFLkiRJc046E/DT5zp58EArQ+MZcmMRPru6ho9dVUVW\n",  
"1EShJUmajYxYkiRjmlNe7BxiR1OK508MAbAhXsKWhnq3i3NDXiZJkibDiCVJkqQ5YXAszUOPt/HP\n",  
"R0+QCWBhYTZbNtXTsKTUg9slSZoDjFiSJEma1YIg4Hev9XDvnha6hsaJRuDjyyu5cU0N+dmxsOdJ\n",  
"kqQpYsSSJEnSrNXWN8rdu5s50NwHwOWVbDy1Oc7FFQUhL5MkSVPNiCVJkqRZZzyd4ZGnOnj4cDtj\n",  
"6YDCnBi3rKvl/ZdXEPXSQUmS5iQjliRjKmaVJ9sG2NGU4vWeEQDefXE5t22oo7wgO+RlkiRpOhmx\n",  
"JEmSNCv0jkwzWwL4WfvHiSQDqSnLZ1hhnVV1xyMskSdL5YMSSJEnSjYJYAn7xwke2N9C/2ia7FiE\n",  
"T69cxCdWLCInKxr2PEmSdJ4YsSRJkjRjvdY9zI5dKZ4+PgjAqtpitjXWU1eaF/IySZJ0vhmxJEmS\n",  
"NOOMTGR4+HA7jzx5nHQA5fLZ3L6xjndeVE7Eg9slSZqXjFiSJEmaUfa93svdu5s5PjBGBPjgFQv5\n",  
"/NoainL9o6skSfOZfxKQJEnSjHBicIx79zSz67VeAC6uyGdbY5wrqgpDXiZJkmYCI5YkSZJClc4E\n",  
"/OiZEzx0qI3h8Qz52VFuWIPDh5dVEot66aAkSTRFiCVJkqTQPnxcyPamFC93DQOw+YJS7thUT2Vh\n",  
"TsjLJEnSTGPEkiRJ0nk3MDrBgwfb+OmznQTAoqIctjTUS3Hx/8fefQbJeRf4vv929+Q8Gs1oUksO\n",  
"cpJlyZIVZ8SSDCyYXRbwAibFgMHYRpa059ate+vui3vq1K06de+tOrVXkiMOGLPEBPPTYhZYNMqW\n",  
"LMm2nIN6kkaTc+ju576wdg+wDgqjeSZ8P1WulmZ6un4vZE33V/38pzTsaZikaYYyYkmSJGnaBEHA\n",  
"71/u5b69rfSOPohF4MYVi/j0tYvIz46FPU+SJM1gRixJkiRNi9b+MXY0t3C4bRCA5YsK2bopzkXl\n",  
"+SEvkyRJs4ERS5IkSRfURDrDd4+c5DtHTjKZDijOjXhrujref/kCohEPbpcKSWfGiCVJkqQL5nDr\n",  
"IDt3J2npHwfg/Zct4Nb1dZTm+TRUkiSdHZ89SJJkacr1jkxy/75W/vWIXgAWl+WxtbGeFTXFIS+T\n",  
"JEmzlRFLkiRJUyYTBpzi2W4eOtDG8ESanFiEz6yq5sZrqiORcOeJ0mSZjEjliRjKqbES90jbN+V\n",  
"5NITiwCsrS/hzoZ6akpyQ14mSZLmAiOWJEmSzsvoZJpHn2jnh0+fIhNARUE2d2ys4x0XIRHx4HZJ\n",  
"kjRFjFiSJEk6J0EQsPu1fu7e00LX8CTRCHz06kpuvq6GwpXy2PMkSdIcY8SSJEnSWTs5OMHde5Ls\n",  
"PTEAwOULC9i2Kc5ICwtCXiZJkuYqI5YkSZLOWCoT8NixTr5xulPxVIaC7Ci3rK3lhisXEot66aAk\n",  
"SbpwjFiSJEk6I093DLG9OcmrvWMAvOuSMm7bUE9FQXbIyyRJ0nngxJkSdJbGhhL8dCBNn75XDcA\n",  
"tSU53NkQZ019ScjLJEnSfGLEkiRJ0hsKgoDfvNDDA/vb6B9LkRWN8MmVi/jUykXkZkXDnidJkuYZ\n",  
"I5YkSZL+kxO9Y+xoTnK0YwiAITVfBgmMs7gsL+RlkiRpvjJiSZIk6T+MpzJ868kOEkc7SWUCSvOy\n",  
"uG19He9dWk4k4sHtkiQpPEYsSZIkAXAgOcBdu5O0D04A8KErK7hITS0leT5IIcRj4fMZiSRJ0jzX\n",  
"PTzJfXtb+MMrfQBcXJ7H1k1xrl5UFPIySZKk/8mIJUmSNE+IMwE/Pd7FIwfbGJnMkJsV5ebV1Xx0\n",  
"eRVZUS8dlCRJM4sRS5IkaR56/tQI25tP8ELXKAAb15SyeWM9VUU5IS+TJEl6Y0YsSZKkeWR4Is0j\n",  
"B9v4yTnDBEBIYTabG+ppWFIW9jRjkqS3ZMSSJEmab4Ig4N9e6ePevS30jKSIRuDJy6v47Opq8rNj\n",  
"Yc+TJEl6W0YsSZKkOa5tYJy7dic52DIIwLkQrY2xrmkIj/kZZIkSWfOiCVJkjRHTaQzfP9oJ996\n",  
"soJdEBxbowvrq3lr6+oIBrx4HZJkjs7GLEkSZLmoCNtg+xoTpLsHwfg+qXl3Lq+jvL87JCXSZIk\n",  
"nRsjliRJ0hzSNzrJV/e38fgLPQDUl+aytTHOtBXFIS+TJEk6P0YsSZKkOSATBPz6uW4ePNDG4Hia\n",  
"7FiEm66t5hMrqsiJRcOeJ0mSdN6MWJkSbPcKz2jbN+V5JnOYQCcuqyvmzoY4daW5IS+TJemaOkYs\n",  
"SZKkWWp0Ms03D3fwg2OdpANYk/JF7RvqeecLZUQ8uF2SJM0x5xWxmpqaPgN8EFgDLAaiQBL4FfDf\n",  
"E4IE+1k+3hLgvwLvByqBXuAPwH9LJBLPnM9WSZKkuWTPa/3cvSdJ59AkEeAjyxby+TW1FObEwp4m\n",  
"SZJ0QZzzP9E1NTVIARPAJLAHeJrXo9g7gCuBtMbjIpF45Qwfb+npX6kAHgeOAXfXeIbAN6VSCQO\n",  
"ns3Gxx9/PABYvXr12XyZJEnSjNU5NME9e1rY/Vo/AESr8tm2Kc4VIYUhl5MkSfPFoUOHAlj++uun\n",  
"9a3f5/NOraZw34F/SiQS3f/+waampgjwAHAL8N+Am8/w8f6J1wPW5kQice+fPN6HgZ8A9/H6O74k\n",  
"SZLmnXQm4IdPn+LRJ9oZS2UoyI7yuetq+NtlcSiXjooSZLmvgvyjKepqela4BBwPJFIXH0G968E\n",  
"2oFkIpG4+A0+2/AJmBlIpE4dqY7fCeWJEmac453DrN9V5KXe0YB+KuLy7h9Qx0LC3NCXiZJkuaj\n",  
"2fhOrLdScPq2+y3v9T+t4/XztPa9yed383rEagTOOGJkiTNZoPjKR4+0MYvnu0mAKqLc7izoZ51\n",  
"8dKwp0mSJE27CxWxPnn69t/O8P6XnL7fJPPt56+/U/v0pIkSZprgiDgty/28tV9rfSNpciKRmi6\n",  
"poqbVIWtlxUNe54kSVIopjxiNTU1rQduB3qA7Wf4ZcWnbwfe5PMjP29LzmOaJEnSjJfsG2Pn7iRP\n",  
"tg0BsLy6kG2NcZaU54e8TJikKVxTGrGampqWAT8DAuBTiUtI1Fk+ROpNPu5ppZikaU6bSGX4zpGT\n",  
"fPFISSyZASW5Mb68vo73XbaASMSnQpIkSVMWsZqamLYDv+L1d1V9MpFIPH4WXz54+vbN/omx4C/u\n",  
"J0mSNGc80TLAZt0ttA2MA/DXl1fwpXW11ORdqJMfJEmSZp8peWbU1NT0IeC7wCTwwUQi8buzffiX\n",  
"T98ufpPP1/3F/SRJkma9npFJ7t/Xyu9e6gVgSVkeWzfuaa6KORlkiRJM895R6ympqYtwD8BSeCG\n",  
"RCLxzDk8zH5evwTxXW/y+U2nb/ew2NLkiTNKOIMwM+f7eJrB9sZnkiTG4v96tr+NjySrJjHtwu\n",  
"SZL0Rs45YjU1NeUC9wBfAP4A3JhIJLrf5mseBdYBjyUSiX/8948nEolTTU1Nvwl+2NTUdGsikXjg\n",  
"T77mBmAjcCyRSDx5rnslSZJmghe7RtjenOS5U6//3Jr18RI2N9RTXZwb8jJkqSZ7XzeifVJXg9Y\n",



"Q8AR4P9oamp6o/v9OpFI/Ob0rcDlwPVb3C//wKsB+5ramr6GPDC6fvfwOs/nfC289gqSZIUqpGJ\n",  
"NF8/1M6Pnz5FJoCFBdl8ZWM9jReVenC7JEnSGTifiPXvz7YKga1vcp8AGAB+8ye/D97ojIE4vmm\n",  
"pqY1wH8F3ge8B+gFHgP+r0Qi8dR5bJUkSQPFEATserWfe/e00DUySTQCH1teyc2rayjliYU9T5Ik\n",  
"adaY0//s9/jjjwcAq1evDnuKJEmah9oHx717dwv7kwMAXFFZwLbGOEsXFrzNV0qSJM1chw4dAuD6\n",  
"66+f1q7kz22WJemaYpPpDD94qpNvHupgPB1QmBPjIjU1fOjKhcSic/rfECVJki4YI5YkSdIUOtYx\n",  
"xI7mJK/1jgHw7kvLuW19HQsKskNeJkmSNLsZsSRJkqZA/1iKB/e38uvnewCoK8llS2M9q+TKQ14m\n",  
"SZI0NxiXJEmSzkMQBPzLCz08sK+VgfE02dElN1y5iE+tXEROVjTseZikSXOGEUuSJOkecvdo7yo7m\n",  
"JE91DAOwqraILY1x6kvzQ14mSZI09xixJEmSztJYKsO3DneQOHqSdAbleVnctqGO91xaTiTiwe2S\n",  
"JEKXghFLkiTpL0xP9rOzuYWTQxNEgA9fuZAvrK2hONenVZikSRReSz7YkSZLOQNfwBPfubeWPr/QB\n",  
"cMmCfLZtinNVVWHIyyRjkuYHI5YkSdJbSGcCfvLMKR55op3RyQx5WVE+d10Nf3d1JbGolw5KkiRN\n",  
"FyOWJEnSm3i2c5gdzUle7B4FoHFJKXdsrKeqKCfkZzikSfOPEUuSJOkvDE+k+drBNn76TBcBUFwU\n",  
"zeaNcTYuKQ17miRJ0rxlxJlkSTotCAJ+/3lf9+9toWc0RSwCN15TxadXVZOfHQt7niRJ0rxmxJlk\n",  
"SQJa+8fZuTvJodZBAK5eVMjWxjgXL8gPeZkkSZLAIcVJkua5iXSG7x05ybePnGQyHVCcG+NL6+r4\n",  
"wOULiEY8uF2SJGmmMGJJkqR563DbIDubk7T0jwPwvssWcOu6Wsrys0NeJkmSpL9kxJlkSfNO7+gk\n",  
"X93Xym9f7AUgXprL1sY4K2uLQ14mSZKkN2PEkiRJ80YmCPjlc908tL+NoYk00eIn11VzY3XVJEd\n",  
"i4Y9T5IkSW/BiCVJkuaFl7pH2NGe5HjnCABr6ovZ0hCnpiQ35GWSJEk6E0YsSZI0p41OpvnGoQ4e\n",  
"e6qTTAALCrL4yoZ63nFxGREPbpckSZo1jFiSJGnO2v1aH3fvbuHU8CTRCHxkWSWfX1NDYU4s7GmS\n",  
"JEK6S0YsSZI055wcnOCePS3sOdEPwGUL89nWuJjLkwtCXiZJkqRzZcSSJElzRioT8NhTnXzjUAfj\n",  
"qQwF2VG+sKaWD1+1kFjUSwclSZJmMyOWJemaE54+OcSOXUle6R0D4J2XIHH7+noqCrNDXiZJkqSp\n",  
"YMSSJEmz2sBYiocOtPHL57oBqCnO4c6GOGvjJSEvkyRJ0IQyYkmSpFkpCAJ++2Iv9+9rpX8sRVY0\n",  
"widWVHHTtdXkZkXDnidJkqQpZsSSJEmzzom+MXy2JznSPgTAypoitjTEWVveF/IySZikXShGLEmS\n",  
"NGuMpzJ8+8kOvne0k1QmoDQviy+vr+X6pQuIRdy4XZikaS4zYkmSpFnhYMsAO5uTtA9OAPDBKyr4\n",  
"4tpaSvJ8OinJkqJf+KxPkiTNaN0jk9y3t4U/vNwHwEXleWxrjHN1dVHIyyRjkSdjFiSJIGSmcC\n",  
"fna8i68dbGNkMkNuVpTPrq7mY8uryIp66aAkSdJ8Y8SSJEkzzvNdI+zYleT5rhEANiWuYfPGOIuK\n",  
"c0JeJkmSpLAYsSRJ0owxPJHm60+085NnTpEJoLIwm80N9TQsKQt7miRJkkJmxJlkSaELgoA/vtLH\n",  
"PdBIImkoAACAASURBVHtb6BIJEY3AjddU8dnV1eRnx8KeJ0mSpBnAiCVJkkLVPjDOXbtbONAYAMB\n",  
"VQVsbYzzaUVByMskSZI0kxixJEISKCbTgb5/rJNvHu5glh1QIBPjlrW1fOjKcQIRD26XJEnSznNi\n",  
"SZKkaXe0fZAdzS2c6BsD4L1Ly/nyujrKC7JDxiZJkqSZyogLSZKmtD/oJA/sb+M3L/QUAF+ay5bG\n",  
"OKtqi0NeJkmSpJnOiCVJki64TBDw6+d7eHB/K4PjabJjEW5auYhPrFxETiwa9jxJkiTNAkYsSZJ0\n",  
"Qb3SM8r05iRPNrWGYFvtMVsb66krzQt5mSRJkmYTI5YkSbogRifTfOtwB98/1kk6gPL8Lg7FUM+7\n",  
"Likj4sHtkiRJOktGLEmSNOX2nujn7t0tnByaIAL8zVUL+cKaGopyfeohSZKk+cMzSUMSNGVODU9w\n",  
"z+4Wml/rB+DSiny2Nca5sqow5GWSJema7YxYkiTpvKUzAT96+hSPHmpndDJDfnaUz11Xw0eWVRKL\n",  
"eumgJEmSzp8RS5IknZfjncNs35Xk5Z5RADZdVMYdG+uoLMwJeZkkSZLmEiOWJEK6J4PjKb52oJ2f\n",  
"P9tFACwqyuHOhrWLy4Ne5okSZLmICOWJEK6K0EQ8LuXerlvbyt9YyliEWhasYhPr6omLysa9jxJ\n",  
"kiTNUUYsSZJ0xlr6x9jZnORw2xAAYxcVsnVtnIvK80NeJkmSpLnOiCVJkt7WRCrDd4+e5DtPnmQy\n",  
"E1CSG+PW9XW877IFRCMe3C5JkqQLz4glSZLe0qHWAXY2t9A6MA7ABY5fWJfW1VGa59MISZikTR+f\n",  
"fUqSpDfUMzLJ/fta+d1LvQAsKctjS2OcFTVFIS+TJEnSfGTEkiRjfyYTBpz8eBcPH2xneCJNbizC\n",  
"Z1ZX8/HIVWTHPLhdkIRJ4TBiSZkk//BS9wjbdyV59tQIAGvrS7izsZ6a4tyQl0mSJGm+M2JJkiRG\n",  
"Jtl8eqidHz19ikwAFQXZfGvJpZsuKiXiwe2SJemaAYxYkiTNY0EQ0PxaP/fsaaFreJJoBD66vJKb\n",  
"V9dQmBMLLe54kSZL0H4xYkiTNUx2D49y9u4V9yQEAqrqsYFtjnKULC0JeJkmSJP1nRixJkuaZVCbg\n",  
"B8c6+edD7YynAwqyo9yytpYbrlxILOqlg5IkSZqZjFiSJM0jT3UMsb05yWu9YwC865IybtTQ0VB\n",  
"dsjLJEmSpLdmxJlkaR4YGEvX4P42fvV8NwC1JTnc2RBnTX1JyMskSZKkM2PEkiRpDguCgN+80MNX\n",  
"97UyMJ4mOxrhkysX8cmVi8jNioY9T5IkSTpjRixJkuaoE71jbG9OcqXjCIBra4vY0hAnXpYX8jJJ\n",  
"kiTp7BmxJemaY8ZSGb59uIPEsU5SmYDSvCxuW1/He5eWE414cLskSZJmJyOWJElzyIHKAdt3J+kY\n",  
"nADghisruGVtLcW5fsuXJEnS7OYzWkmS5oCu4Qnu29vKv73SB8AIC/LY2riYZYsKQ14mSZikTQ0j\n",  
"liRJs1g6E/CTZ07x9SfaGZnMkJeV5ebV1Xx0eRWxqJcOSpIkae4wYkmSNEs9f2qE/2/XCV7sHgWg\n",  
"YUkpX91YT1VRTsjLJEmSpKlnxJlkaZYznkjzyME2fvJMFwFQWZjNnQ1xNi4pDXuaJEmSdMEYsSRJ\n",  
"miWCIOAPL/dx394WekZTRCNw4/Iq/n51NfnZsbDnSZikSReUEUuSpFmgtX+cu3YneaJ1EIBIVYVs\n",

"bYxzSUV+yMskSZKk6WHEkiRpBptlZ0gc7eRbT3YwmQ4ozo3xpbW1fOCKCqIRD26XJEnS/GHEkiRp\n",  
"hnqybZAdzUla+scBuP6yBdy6rpbY/OyQl0mSJEnTz4glSdIM0zs6yQP723j8hR4A6ktz2doY59ra\n",  
"4pCXSZIkSeExYkmSNENkgoBfPdfNQwfaGBxPkx2L8Olrq2laUUUVOLBr2PEmSJCiURixJkmaA17tH\n",  
"2dGc5JnOYQCcuqyvmoY4daW5IS+TJEmSZgYjliRJRqdTPONQx089lQnmQAW5Gdxx8Z6/uriMiE\n",  
"3C5JkiT9ByOWJEkh2fNaP3fvSdI5NEkE+MiyhXx+TS2FObGwp0mSJEkzjhFLkqRp1jk0wd17Wtjz\n",  
"Wj8ASyvy+YdNi7m8siDkZZIkSdLMZcSSJGmapDIBP3qqk0cPdTCWylCQHeXza2r5m6sWEot66aAk\n",  
"SZL0VoxYkiRNgd2ODrOj+QQv94wB8FcXl3HHhnoqCrNDXiZJkiTNDkYsSZluoMHxFA8daOMXz3YD\n",  
"UF2cw50N9ayL14a8TJkSZpdjFiSJF0AQRDw2xd7uX9fK/1jKbKiEZquqeKmVdXkZUXDnidJkiTN\n",  
"OkYsSZKmWLJvjb3NSY60DwFwTXURWxvrWVKeH/IySZIkafYyYkmSNEXGUxm+c+Qk3ztykslMQGle\n",  
"Freuq+V9ly0gEvHgdkmSJOI8GLEKSZoCB1sGuGt3kraBCQA+eEUFX1xbS0me32olSZKkqeAza0mS\n",  
"zkP3yCT3723h9y/3AbCkPI9tjXGWVxeFvEySJemaW4xYkiSdg3Qm4OfPdvHwgTZGJjPkxiJ8dnUN\n",  
"H7umiqyolw5KkiRJU82IJUnSWXqha4QdzUmeOzUCwPp4CZsb6qkuzg15mSRJkjR3GbEkStPdwxNp\n",  
"Hn2inR8/c4pMAAsLs/nKxnoal5R6cLskSZJ0gRmxJEl6G0EQ8MdX+7h3TyvdI5NEI/Dx5ZV8dnUN\n",  
"BTmxsOdJkiRJ84IRS5Kkt9A+OM7du1vYnxwA4IrKA5hU5xLKwpCXiZJkiTNL0YsSZLewGQ6w/eP\n",  
"dfKtwx2MpwMKc2J8cW0tH7yigpgHt0uSJEnTzogIldJfOno+xI7mJcF6xgB4z6XlHl9HQsKskNe\n",  
"JkmSJM1fRixJkk7rH0vx4P5Wfv18DwB1JblsbYyzqq445GWSJEmSjFiSpHkvEwT8y/M9PLC/lcHx\n",  
"NNnRCJ+6dhGfXLGInKxo2PMkSZIkYcSSJM1zr/aOsqM5yVMdwwCsqi1s2Oc+tK8kJdJkiRJ+ING\n",  
"LEnSvDSWYvDNwx18+hJ0gGU5WVx+4Y63n1pOZGIB7dLkiRJM40RS5I07+w70c9du1s4OTRBBPjw\n",  
"VQv5wpoainP9tihJkiTNVD5blyTNG6eGJ7h3Twu7Xu0H4NKKfLY2xrmqqjDkZZIkSZLejhFLkjTn\n",  
"pTMBP37mFF9/op3RyQx5WVE+d10Nf3d1JbGolw5KkiRJs4ERS5I0pz3bOcyO5iQvdo8CsOmiUm7f\n",  
"UE9VUU7IyyRJkiSdDSOWJGI0GhpP8bWD7fzseBcBsKgoH80N9WxYXBr2NEmSJEnnIglSZpTgidg\n",  
"9y/3ct/eVnpHU8QicOM1VXx6VTX52bGw50mSJEk6R0YsSdKc0do/xs7dLrxqHQTg6kWFbG2Mc/GC\n",  
"/JCXSZIKSTpfrIxJ0qw3kc7wvSMn+faRk0ymA4pzY3xpXR0fuHwB0YgHt0uSJEIzgrFLkjSrHW4d\n",  
"ZOfuJC394wC8/7IFfGldLWX52SEvkyRjkjSjFiSpFmpd2SS+/e18q8v9QKwuCyPrY31rKgpDnmZ\n",  
"JEmSpAvBiCVJmlUyQcAvnu3m4QNtDE2kyYIF+Myqam68porsWDTseZIkSZIuECOWJGnWeKl7hB3N\n",  
"SY53jgCwpr6YLQ1xakpyQ14mSZIk6UIzYkmSZrRyTTFONTBY091kgmgoiCbOzbW8Y6LYoh4cLsk\n",  
"SZIOLxixJEkzVhAE7H6tn7v3tNA1PEk0An93dSWfu66GwpX2PMkSZIkTSMjliRpRjo5OMHde5Ls\n",  
"PTEAwOULC9i6Kc7lCwtCXiZJkiQpDEYsSdKMksoEPHask28c7mA8laEgO8ota2u54cqFxFkEoiHJ\n",  
"kiTNV0YsSdKM8XTHENubk7zaOwbAOy8p4/b19VQUZoe8TJkSVLYjFiSpNANjKV46EAbv3yuG4Ca\n",  
"4hy2NMZZU18S8jJkiRJM4URSS5IumiAI+M0LPTyww43+sRRZ0QifWFHFTddWk5sVDXueJEmSpBnE\n",  
"iCVCJsWJ3jF2NCc52jEEwMqarY0xllchfyMkmSJEkzkRFLkjStxIMZvvVkB4mjnaQyAaV5Wdy2\n",  
"vo73Li0nEvHgdkmSJEIvZglSZo2B1sG2NmcpH1wAoAPXIHBF9fWUpLntyNjkiRjB81XDZKkC657\n",  
"eJL79rbwh1f6ALi4PI+tm+Jcvago5GWSJEmSZgsljTpgklnAn56vItHDrYxMpkhNyyKzaur+ejy\n",  
"KrKiXjooSZIk6cwZsSRJF8TzXSNs33WCF7pGAdi4uJTndfVUFeWEvEySJEnSBGTEkiRNqeGJNl8c\n",  
"bOenx0+RCaCyMJvNdfUOLCkLe5okSZKkWcyIJUmaEkEQ8MdX+rhnbsw9IymiEbjxmio+u7qa/OxY\n",  
"2PMkSZIkzXJGLEnSeWsbGOeu3UkOtgwCcFVVAVsb41xaURDYmkmSJEIzhRFLknTOJtIzvn+0k289\n",  
"2cFEOqAoJ8YX19XywSsqiEY8uF2SJEnS1DFiSZLOydH2QbbvSpLsHwfg+qXl3Lq+jvL87JCSZIk\n",  
"SZqLjFiSpLPSNzrJA/vb+M0LPQDUl+aypTHOqtrikJdJkiRjmsuMWJkK5IJA79XDcPHmhjcDxN\n",  
"dizCTddW84kVVeTEomHPkyRjkjTHGbkESw/rIz5Rtu9K8kznMACr64rZ0hCnrjQ35GWSJEmS5gsj\n",  
"liTpTY1Opvnm4Q5+cKyTdAAL8rO4bUM977qkjIghT0uSJemaRkYsSdIb2vNaP3fvSdI5NEkE+Ntl\n",  
"C/n8dTUU5fqtQ5IkSdL085WIJOnPdA5NcO+eFppf6wdgaUU+2zbFuaKyMORlkiRjkuYzI5YkCYB0\n",  
"JuCHT5/i0SfaGUtlyM+O8vnravjbZZXEol46KEmSJCcRixJEsc7h9m+K8nLPaMAbLqojK9srGNh\n",  
"YU7IyyRJkiTpdUYsSZrHBsdTPHygjV88200ALCrKYUtiPevipWFPkyRjkqQ/Y8SSpHkoCAL+9aVe\n",  
"7t/bSt9YilgEmIYs4tOrqsnLioY9T5IkSZL+EyOWJM0zyb4xdu5O8mTbEADLqwwZ2hjnvl8kjdJ\n",  
"kiRJOpszYknSPDGRyvCdlyf57pGTTGYCSnJ3Lq+jvdftoBIxIPbJUmSJM1sRixJmgeeaBlg5+4W\n",  
"2gbGAfjA5Qv40ro6SvP8NiBkiRpdvDViyTNYT0jk9y/r5XfvdQLwJKyPLZuinNNdVHIyyRJkiTp\n",  
"7BixJGkOSmcCfvFsFw8fbGd4Ik1uLMJnVlfz8eVZMc8uF2SJEnS7GPEkqQ55sWuEbY3J3nu1AgA\n",  
"6+IlbG6op6Y4N+RlkiRjknTujFiSNEeMTKT5+qF2fvz0KTIBVBRk85WN9WY6qNSD2yVJkiTNekYs\n",

"SZrlgiCg+dV+7tnTQtfIJNEIfHR5JZ9bXUNBTizseZIkSZIOJYxYkjSLdQyOc/fuFvYIBwC4orKA\n",  
"bY1xli4sChmZJEmSJE0tI5YkzUKpTMAPjnXyz4faGU8HF0bEuGVNDR+6ciGxqJcOSpIkSZp7jFiS\n",  
"NMsc6xhiR3OS13rHAHj3peXctr6OBQXZIS+TJEmSpAvHiCVJs0T/WIoH97fy6+d7AKgtyWVLQz3X\n",  
"1ZeEvEySJEmSLjwjlITNcEEQ8JsXevjqvLYGxtNkRyN8cuUiPrVyETIZ0bDnSZIkSdK0MGJJ0gz2\n",  
"Wu8oO5pbONYxBMC1tUVsaYgTL8sLeZkkSZIkTS8jliTNQGOOpDN863EHi6EnSAZTIZXHbhjrec2k5\n",  
"kYgHt0uSJEmaf4xYkjTD7E/2s7O5hZNDewDccGUft6ytpTjXv7IISZIkV++IpKkGaJreIJ797by\n",  
"x1f6ALhkQR5bGxezbFFhyMskSZIkKXxGLEkKWToT8JNnTvHIE+2MTmbly4py83U1fPTqSmJRLx2U\n",  
"JEmSJDBiSVKonjs1zPZdSV7sHgWgYUkpX91YT1VRTsjLJEmSJGlmMWJJUgiGJ9J87WAbP32miwCo\n",  
"Kspm88Y4G5eUhj1NkiRjkmYkI5YkTaMgCPj9y33cv7eFntEU0QjcuLyKv19dTX52LOx5kiRjKjRj\n",  
"GbEkaZq09o9z1+4kT7QOArCsqpBtm+JcvCA/5GWSJEmSNPMZsSTpAptIZ/je0U6+/WQHk+mA4twY\n",  
"X1pbyweuqCAa8eB2SZIkSToTUxqmpqargCeBr6dSCQ+ew5f/3ng4be52x2JROL+c5gnSdPucNsg\n",  
"O5uTtPSPA/C+yxZw67payvKzQ14mSZIkSbPLEUespqamS4H/BagB3g9EgeA8H3YP0Pwmnzt8no8t\n",  
"SRdc7+gkX93Xym9f7AWgVjSXbY1xVtYWh7xMkiRjKmanqXgnVhy4g/MPV3/qt4IE4v+cwseTpGmR\n",  
"CQJ++Vw3D+1vY2giTU4swqevrebGFVXkxKJh5MkSZKkWeu8I1Yikfg9r7/7iqampncCvzvf5Sk\n",  
"2ejl7IF2NCd5pnMYgDX1xdzZEKE2JDfkZZIkSZIO+031we5TdUKxJx1LmjVGJ9N841AHjz3VSSaA\n",  
"BQVZ3LGhnr+6uIyIB7dLkiRJ0pSYqT+d8H9ramr6RyANdAMHgQcSicRPwp0ISX9u92t93L27hVPD\n",  
"k0SAjyyr5PNraijMiYU9TZIkSZLmlJkWsfp5/XLE107/ugxYAdwA3NDU1PR/JxKJfwxxyQBcHJw\n",  
"gnv2tLDnRD8ASyvy+YdNi7m8siDkZZIkSZIO82oiJVJIH4I/PAvP97U1HQD8Bjwvzc1NX0jkUgc\n",  
"n/ZxkgSkMgE/fKqTRw91MJ7KUJAd5fNravmbqxYSi3rpoCRJkiRdKLPiR2UIEomfA9/k9bOy3hPy\n",  
"HEnz1NMnh9j8w2d5YH8b46kM77y4jIduXmbfXV1pwJkSZKkC2xGvRPrbFScvi0MdYWkeWdgLMXD\n",  
"B9v4xbPdANQU53BnQ5y18ZKQl0mSJEnS/DGbItaq07deSihpWgRBwG9f7OX+fa30j6XIikZoWIHF\n",  
"p6+tJdrVryRVZIkSZLmjGmPWE1NTY8C64DH/vKQ9qampv8B/I9EItH2Fx+/GXg3kAR+PV1bJc1f\n",  
"J/rG2Nmc5Ej7EAArqovY2hhncXleyMskSZIkA4674jV1NRUD3zq9G8vPX27rKmp6X89/etjiUTi\n",  
"T8PTYuByoPoNHu6/AFubmpr2AU+f/tgKYD0wAHwmkUhMnO9mSXoz46kM336yg+8d7SSVCSjNy+LW\n",  
"dbW877IFRCKeeyVJkiRJYZmKd2ItBf7fP/I9wOuX/q0+/ftH+PN3TwWn/3sjXwY+CCwDPgHkA63A\n",  
"/cd/k0gkXp2CvZL0hg62DHDx7iRtA6+38g9eUcEX19ZSkjebryWJEmSpLlpTr+t4PHHHw8AVq9e\n",  
"/XZ3ITSPdY9Mct/eFv7wch8AF5Xnsa0xztXVRSEvkyRjkqSZ59ChQwBcf/3109qVfHuBpHkrnQn4\n",  
"2fEuvnawjZHJDLmxCJ9dXcPHrkiKzqnG78kSZIkZTpGLEnz0gtdI2zfleT5rhEA1sdL2NxQT3Vx\n",  
"bsjLJEmSJElvxIglav4Znkjz9Sfa+ckzp8gEsLAWm80b62IYUurB7ZIkSZIOgmxmJM0LQRDwx1f7\n",  
"uHdPK90jk0Qj8PHlldx8XQ352bGw50mSJEmS3oYRS9Kc1z4wzl27WzjQMgDAIZUFbNsU59KKgpCX\n",  
"SZIkSZLOIBFL0pw1mc7w/WOdFPNwBxPpgMKcGF9cW8uHrqwg6qWDkiRjKjSrGLEkzUIH24fY0Zzk\n",  
"RN8YAO+5tJzb1tdRXpAd8jJkiRJ0rkwYkmaU/rHUjywr5V/eaEHgLqSXLy2xllVVxyMkmsJEnS\n",  
"+TBiSZoTmkHAr5/v4cH9rQyOp8mORBhp5SI+sWIROVnRsOdJkiRjKs6TEUvSrPdKzyg7m5M8dXIY\n",  
"gFW1xWxtrKeuNC/kZZIkSZKkqWLEkjRrjU6m+dbhDr5/rJN0AOX5Wdy+oY53XVJOxIPbJUmsJGI\n",  
"MWJjMpX2nejnrt0tnByaIAL8zVUL+cKaGopy/WtNkiRjkuYiX+1JmlVODU9w754Wdr3aD8Ciffls\n",  
"bYxzVVVhyMskSZIkSRESEUvSrJDOBpzo6VM8eqid0ckM+dIRPnddDR9ZVks6qWDkiRjKjTXGbEk\n",  
"zXjHO4fZvivJyz2jAGy6qJQ7NtZTWZgT8jJkiRJ0nQxYkmasYbGUzxsJ2fH+8iABYV5bC5oZ4N\n",  
"i0vDniZJkiRjmmZGLEkzThAE/O6lXu7f10rvaIpYBG5csYhPX7uI/OxY2PMkSZIkSSEwYkmaUVr7\n",  
"x9jR3MLhtkEAli8qZOumOBeV54e8TJkSZIUJiOWpBlhIpXhu0dP8p0jJ5IMBxTnxrh1XR3vv3wB\n",  
"0YgHt0uSJEnSfGfEkhs6Q60D7GxuoXVgHID3X7aAW9fXUZrnX1GSJEmSpNf5CIFSaHpHJrlvXyu\n",  
"e6kXgMVleWxtrGdFTXHIyyRjkiRJM40RS9K0ywQBv3i2m4cOtDE8kSYnFuEzq6q58ZoqsmPRsOdJ\n",  
"kiRjkmYgI5akafVS9wjbdyV59tQIAGvrS7izoZ6aktyQl0mSJEmSZjIjlqRpMTKR5tFD7fzo6VNk\n",  
"AqgoyOaOjXW846IyIh7cLkmSJEl6G0YsSRdUEAQ0v9bPPXta6BqeJBqBj15dyc3X1VCYEwt7niRJ\n",  
"kiRpljBiSbpgTg5OcnfuJPuSAwBcvrCABzviXLawIORlkiRjKqTZxoglacqlMgGPHevkG4c7GE9l\n",  
"KMioCsvaWm64ciGxqJcOSpIkSZLONhFL0pR6qmOIHc1JXu0dA+Bdl5Rx24Z6KggyQ14mSZIkSZrN\n",  
"jFiSpsTAWIoH97fxq+e7AagtyeHOjh6ktCXiZJkiRjmgmMWJLOSxAE/OaFhh7Y30b/WIqsaIRP\n",  
"rlzEp1YuljcrGvY8SZIkSdlcYcSSdM5O9I6xoznJ0Y4hAFbWFLGIMc7isryQl0mSJEmS5hojIqS\n",  
"NpbK8O3DHSSOdZLKBjTmZXHb+jreu7ScSMSD2yVJkiRJU8+IJemsHEgOsHN3ko7BCQA+dGUft6yp\n",

"pSTPv04kSZIkSReOrzolnZHu4Unu3dvCv73SB8DF5Xls3RTn6kVFIS+TJEmSJM0HRixJbymdCfjp\n",  
"8S4eOdjGyGSG3KwoN6+u5qPLq8iKeumgJEmSJGl6GLEkvannT42wvfkEL3SNArBxSSmbN9ZTVZQT\n",  
"8jJkiRJ0nxjL0nwxPpHnkYBs/eaalAKgszGZzQz0NS8rCniZJkiRjmqeMWJL+QxAE/OHIPu7b\n",  
"20LPaIpoBD6+vIrPrq4mPzsW9jxJkiRJ0jxmxJIEQNvAOHftTnKwZCAZVWFbG2Mc0lFfsjLJEmS\n",  
"JEkyYknz3kQ6Q+JoJ99+soOJdEBxbowvrq3lr6+oIBrx4HZJkiRJ0sngxJLmsSNtg+xoTpLsHwfg\n",  
"+qXl3Lq+jvL87JCSXSZIkSZL054xY0jzUOzrJA/vbePyFHgDqS3PZ2hjn2trikJdJkiRjkvTGjFjS\n",  
"PJIJAn71XDcPHWhjcDxNdizCTddW84kVVeTEomHPkyRJkiTpTRmXPpHnilZ5Rtu9K8kznMACr64rZ\n",  
"0hCnrjQ35GWSJEmSJL09I5Y0x4I0pvnQx384KIOMgEsyM/i9g31vPOSmiE3C5JkiRjmiWMWNIc\n",  
"tue1fu7ek6RzaJI8JFIC/n8mloKc2JhT5MkSZIk6awYsaQ5qHNogrv3tLDntX4Allbks21TnCsq\n",  
"C0NeJkmSJEnSuTFiSXNIKhpwo6cefRQB2OpDAXZUT53XQ1/u6ySWNRLByVJkiRJs5cRS5ojjncO\n",  
"s33XCV7uGQPgry4u4/YNdSwszA15mSRJkiRJ58+Ijc1yg+MpHj7Qxi+e7SYAqotzuLOhnnXx0rCn\n",  
"SZIkSZI0ZYxY0iwVBAG/fbGXr+5rpW8sRVY0QtM1Vdy0ppq8rGjY8yRjkiRjmiJGLGkWSvaNsaM5\n",  
"yZH2IQCWVxeyrTHOkvL8kjdJkiRjknRhGLGkWWQileE7R07y3SMnmcwElOTG+PL6Ot532QIIEQ9u\n",  
"lyRjkiTNXUYsaZZ4omWAnbtaBsYB+CvL6/gS+tgKcnzf2NjkiRJ0tznq19phusZmeT+fa387qVe\n",  
"AJaU57GtMc7y6qKQl0mSJEmSNH2MWNIMlc4E/PzZLh4+0MbIZIbcWIS/X13Dx5ZXkh3z4HZJkiRJ\n",  
"0vxixJJmoBeRtjRnOS5UyMArI+XsLmhuri3JCXSZIkSZIUDiOWNIOMTKT5+qF2fvz0KTIBLCzI\n",  
"5isb62m8qNSD2yVJkiRJ85oRS5oBgiBg16v93Lunha6RSaIR+NjySm5eXUNBTizseZIkSZIkhc6I\n",  
"JYwSfXCcu3e3sD85AMAVIQVsa4yzdGfByMskSZIkSZO5jFhSSCbTGb5/rJNvHe5gPB1QmBPjU1\n",  
"fOjKhcSiXjooSZIkSdKfMmJITjWMcSOXUle6xsD4N2XlnPb+joWFGSHvEySJEmSpJnJiCVNo/6x\n",  
"FA/ub+XXz/cAUFuSy5aGeq6rLw15mSRJkiRJM5sRS5oGQRDwLy/08MC+VgbG02RHI3xy5SI+tXIR\n",  
"OVnRsOdJkiRjkTjGbkC+zV3IF2NCd5qmMYgFW1RWxpjFNfmhfyMkmSJEmSZg8jlnSBjKuyfPNw\n",  
"B98/epJ0AGV5Wdy2oY73XFpOJOLB7ZIkSZIkQ0jlnQB7E/2s7O5hZND0SAD1+5kc+sraE41/l\n",  
"JEmSJek6F76ilqbQqeEJ7t3Tyq5X+wC4ZEE+2zbFuaqqMORlkiRjkiTNbkYsaQqkMwe/fuYUX3+i\n",  
"ndHJDHIZUT53XQ1/d3UlsaiXDkqSJEmSdL6MWNJ5erZzmb3NSV7sHgWgcUkpd2ysp6ooJ+RlkiRJ\n",  
"kiTNHUYs6RwNjaf42sF2fna8iwCoKspm88Y4G5eUjh1NkiRjkqQ5x4glnaUgCPj9y33cv7eF1GQS\n",  
"AwAAFh5JREFUntEUsQh8/JoqPrOqmvzsWNjzJEmSJEmak4xY0llo7R9n5+4kh1oHAbh6USFbG+Nc\n",  
"vCA/5GWSJEmSJM1tRizpDEykM3zvyEm+feQkk+ma4twYX1pXxwcuX0A04sHtkiRjkiRdaEYs6W0c\n",  
"bhtkZ3OSlv5xAN532QJuXVdLWX52yMskSZIkSZO/jFjSm+gdmeSr+1v57Yu9AMRLc9naGGdlbXHI\n",  
"yyRjkiRjmn+MWNJfyAQbv3i2m4cPtDE0kSYnFuHT11bTtKKK7Fg07HmSJEmSJM1LRizpT7zUPcKO\n",  
"5iTHO0cAWFNfzJ0NcWpLckNeJkmSJEnS/GbEkoDRYTTfONTBY091kgLQUEWX9IQzssuLiPiwe2S\n",  
"JEmSJIXOiKv5r/nVpu7e00LX8CTRCHxkWSWfX1NDYU4s7GmSJEmSJOk0I5bmrZODE9yZp4U9J/oB\n",  
"uGxhPtaF3N5ZUHIIyRjkiRJ0l8yYmneSWUCHnuqk28c6mA8laEgO8oX1tTy4asWEot66aAkSZIk\n",  
"STOREUvzytMdQ2xvTvJq7xgA77ykjNvX11NRmB3yMkmSJEmS9FaMWJoXBsZSPHSgjV8+1w1ATXEO\n",  
"dzbEWRsvCXmZJEmSJek6E0YszWIBEPD4iz18dV8b/WMpsqIRPrGiipuurSY3Kxr2PEmSJEmSdIaM\n",  
"WJqzTvSNsbM5yZH2IQBWBextTHO4vK8kjdJkiRjkqSzZcTSnDOeyvDtJzv43tFOUpmA0rwsvry+\n",  
"luuXLiAS8eB2SZIkSZJmIyOW5pSDLQPsbE7SPjgBwAevqOCLa2spyfOPuiRjkiRJs5mv7DUndA9P\n",  
"ct/eFv7wSh8AF5Xnsa0xztXVRSEvkiRjkiRJU8GIpVktNqn42fEuvnawjZHJDLIZUT67upqPLa8i\n",  
"K+qlg5IkSZIkZRVGLM1az3eNsH3XCV7oGgVgw+ISNm+Ms6g4J+RlkiRjkiRpphmxNOSMT6R55GA7\n",  
"Pz1+ikwACwuz2byxnoYlpR7cLkmSJEnSHGXE0qwrBAF/fkWP/a20DOSIhqBG6+p4rOrq8nPjoU9\n",  
"T5IkSZIkXUBGLM0K7QPj7Nyd5GDLIABXVRWwtTHOpRUFIS+TJEmSJEnTwYilGW0yneH7xZr55uEO\n",  
"JtIBRTkxblly4eurCDqpYOSJEmSJM0bRizNWEfbB9nR3MKJvjEA3ru0nC+vq6O8IDvkZZIkSZIk\n",  
"aboZsTTj9I1O8sD+Nn7zQg8A9aW5bGmMs6q2OORlkiRjkiQpLEYSzRiZIODXz3Xz4IE2BsftZMci\n",  
"3LRyEZ9YUyicWDTseZIkSZIkKURGLM0lr/SMsqM5ydMnhwFYVVvM1sZ66krzQ14mSZIkSZJmAiOW\n",  
"QjU6meabhvz4wbFO0gGU52dx+4Y63nVJOREPbpckSZIkSacZsRSavSf6uXt3CyeHJogAf3PVQr6w\n",  
"poaiXP9YSpIkSZKkP2ct0LTrHJrg3j0tNL/WD8CIFlsa4xzZVVhyMskSZIkSdJMZcTStElnAn74\n",  
"9CkefaKdsVSG/Owon7uuho8sqyQW9dJB/f/t3XlW3OV5wPGvVrIky4d84FOSzWEwcYwDxviSmxJK\n",  
"SKgzaa63pqWQC2II4ByTadpOJ2mmM0wm004GAwVCiKnTNMebkgQMgQRKCaCwb2NwDLA5HBxJlu/7\n",  
"0rn9Y1eJohYx65WK30/M5pX+/v99tInbc07jx69v3clSZIkSeqaTSz1i617jnPHmlq2HzgJwJKz\n",

"x3DzogomjCjOcWaSJEmSJckf2MRSVh1tbOFbzzfw6LZ9JIFJ14u5dXEIC6aV5zo1SZIkSZKUR2xi\n",  
"KSuSyST/+8ZB7nu2nkOnWigsgI/MmcS110ymtCiR6/QkSZIkSVKESYmljKs7fIo7a2p5YecxAGZP\n",  
"GsGKJVWcPXZ4jjOTJEmSJEn5yiaWMqappY3vb9rNDzbtprktyeiSQm5cUMG7zx9HosCN2yVJkiRJ\n",  
"Uu/ZxFJGbkW/wp01ddQfaQTgPRem44b5FZSX+iMmSZIkSZL6zg6D+uTAiWbuW1/P028cBGD6mFJu\n",  
"q65izpSROc5MkiRjkiQNjjax1CutbUke27aPBzc0cLypLZLCAq6dO5kPz57IsEI3bpckSZIkSZl\n",  
"E0s99vq+E9xRU8sre08AcFnlaG6trmTKqJiCzYzJkiRjkgYrm1jqthNNraza2MBPXt5LWxLGLw3j\n",  
"04sqWXJ2OQVu3C5JkiRjkrLIJpbOKJIMUvPmYf5jXR37TjSTKIAPvn0C1186hRHFhblOT5IkSZIk\n",  
"DQE2sfSWdh1t5O61dayvPQLAzAllrKiu4vyzynKcmSRJkiRjGkpsYum0WtqS/M/mPzfXxgYaW5OU\n",  
"DUvwicumsvTCsyhMeOugJEmSJEnqXzax9Cde2nWMO2pq2XHwFACXnzuG5QsrGV82LMeZSZIkSZKk\n",  
"ocomln7vyKkWvncTh5/dT8AU0cXc+viKuZVjs5xZpIkSZIkkaiziSWSySS/eO0A31hfz5HGvooS\n",  
"BSx7xySueeckSooSuU5PkiRjkiTJtZQt+PgSVbW1LF51zEA3jFJLdVVzFtTGMOM5MkSZIkSfoD\n",  
"m1hD1KmWNv77hV3E3+ymNQnlpUUsX1DBX8wYS0GBG7dLkiRjKqSBxSbWEPRc7WHuWlvHrqNNACy9\n",  
",  
"cDyfuGwqo0r8cZAKSZIkSQOTXYshZN/xJu55tp5f/fYQAoemLeUzS6Yxa9KIHGcmSZIkSZL01mxi\n",  
"DQGtbUke3rKX//x1Ayea2ygtSnD93M18YPZEihLeOihJkiRjkgY+m1iD3Ct7j3PHmlpe338SgMXT\n",  
"y/n0okomjizOcWaSJEmSJEndZxNrkDre1Mq3NuzkkS37SAITRgzj1sVVLJpenuvJEmSJEmSeswm\n",  
"iCTTCZ5Zvsh7n22jgMnW0gUwEdmT+Tv5k5m+LDCXKcnSZIkSZLkZaxBpH6w43ctbaWX9cfBWDW\n",  
"xBGsqK7i3PHDe5yZJEmSJES39jEGgSaWtv44W/28L0Xd9HcmmRUSSGfvGwq7505nksBG7dLkiRJ\n",  
"kqT8ZxMrz7248ygra2qp09wIwJXnj+PG+VMZO3xYjOTJEmSJEnKHJtYeergyWbuX1/Pk68fBKC\n",  
"vIQV1VVcPHVUjjOTJEmSJEnKJtYeaYmeTxV/bzWPM7OdrYrDCAv724smEORMpLkzkOj1JkiRJ\n",  
"kqSssImVR7bvP8nKmlq27DkOwKUVo7h1cRUV5SU5zkySJEmSJCm7bGLlgZPNrXxn4y4eemkPbUkY\n",  
"N7yImxZW8ufnjqHAjdsLSZIkSDiQYBNrgFu74x3r61j7/FmCoC/mnUWH5s3IRHFhblOTZIkSZIk\n",  
"qd/YxBqg9hr4u51dazbcRiAGeOH89k107hgQlMOM5MkSZIkSep/NrEGmJa2JD9+aQ+rNu6isaWN\n",  
"smEJPnrpFN4/awKFCW8dlCRJkiRjQ5NNrAFky+7jrKz5HdsPnALgneeM4aaFFZw1ojjHmUmSJEmS\n",  
"JOWWTawB4MipFh7csJPHtu0HYPKoYm5dXMn8qvIcZyZJkiRjKjQw2MTKoWQyyVOvH+S+9fUcPtVC\n",  
"UaKAacNFE/uaSyZQWJXKdniRjkiRj00BhEytHag+dYmVNLZsajgFw0eSRrKiuZPrY4TnOTJkSZIk\n",  
"aeCxidXPGIva+P6m3fxw026a25KMLinkUwsqePf54ygocON2SZIkSZKk07GJ1Y821B3hrrW17DzS\n",  
"BMB7LxjPdFonMrrU/wZJkiRjKqS3YvekH+w/0cy9z9bxzPZDAEwfW8pnquYPXikjOTJEmSJEnK\n",  
"Dzaxsqi1Lcmj2/bx4PM7OdHcRklhAdfNncKHLppIUcJbByVJkiRjkrLJlaWvLbvBCtranll7wkA\n",  
"FLSN5pbFIUweVZLjzCRJkiRjKvKPTawMO97UyqpfN/DTLXtpS8JZzCP490JKqqeXu3G7JEmSJES\n",  
"L9nEypBkMsmv3jzEPevq2X+imUQBfHj2BK6b04WY4sJcypdJkiRjKpTXbGJlQMORRu5aW8fzdUcA\n",  
"mDmhjM8uqeK88WU5zkySJEmSJGlsInVB82tbfxo8x6++8IumlqTjCgu5JOXTeXqmeMpdON2SZIk\n",  
"SZKkJLGG1Uu/aTjGypafnfoFADvOm8syxdUMK5sWI4zkyRjkiRjGnxsYvXQ4VMtfPO5ep549QAA\n",  
"FaNLuK26krkV03OcmSRJkiRj0uBIE6ub2pJf7qAe5/rp6jja0MSxRwzcWTWDZnEsVFiVynJ0mS\n",  
"JEmSNKjZxOqGNw+eZOWaW17afRyAS6a05LbqKirLS3OcmSRJkiRj0tDgEqK3cKqljQee38nND23j\n",  
"pd3HGVNaxD9cPp2vXj3DBpY0xD3yyCO5TkHSIOTclikbnFskDRY2sbqw/neHufFWH/nBpt20JeF9\n",  
"F57FA+FtXDFjHAUFfvKgNNStXr061yIIGoScWyRlg3OLpMHC2wk72Xu8iXvW1bHmzcMAnDtuOJ9Z\n",  
"UsXbJo7IcWaSJEmSJEIDV0abWCGEmcDLwPdjNf1MsZ04MvAVcAE4CDwDPCVGOOWTOXaWwTbKp+8\n",  
",  
"vJdVGxs42dxGaVGCj146hQ+8fQKFCVdeSZIkSZIk5VKfm1ghhPOAzWNTSDWeEkCyl7FmA0uA8cCT\n",  
"wFbgbOCDwNIQwuUxxg19zmbzbXuOc0dNLW/sPwnAkrPLuWlhJRNHFmf6pSRJkiRjktQLmViJVQXc\n",  
"TC8bV518nVQD65YY4z3tB0MI7wMeBu4F5mXgdQA41tjCgxsaeHTrPpLApJHF3Lk4koXTyjp1EpIk\n",  
"SZIkScqAPm/sHmP8ZYwxEWMsBK7obZwQwgTgamBHxwZW+jVWA2uAuSGEi/qUMJBMJnn6jQN88kdb\n",  
"Wb11H4kCWDZnIt/48IU2sCRJkiRjkgagTG/s3pfNo+aTaqqt7+L8WmAJUA1s7u2L1B8+xcqaOl7Y\n",  
"eRSAt08awYrqKs4ZN7y3ISVJkiRjKpRIA+nTCc9Nj3u6OF+fHs/pTfCm1jZ+sGk339+0m+bWJKNK\n",  
"CrlhfgXvuWAcIQI3bpckSZIkSRrIBlITa1R6PNLF+RPpcXRPA79Qf5Q719ZSd7gRgKvOH8cN86cy\n",  
"ZviwnmcpSZIkSZKkfjeQmljtWro43uvlUl/82esATbtTiyorqSuZMGXWGWZ0iSJEmSJGkgGUhNrKPP\n",  
"savNqco6XddtX53b/sGJJ2lpeI2NDT2NIEI/bPny5WzcuDHXaUgaZJxbJGWDC4ukwaLPn06YQdvT\n",



```

 "plt.plot([1,2,3])"
]
},
{
 "cell_type": "code",
 "execution_count": 3,
 "metadata": {
 "collapsed": false
 },
 "outputs": [
 {
 "data": {
 "text/plain": [
 "[<matplotlib.lines.Line2D at 0x10cd9cb10>]"
]
 },
 "execution_count": 3,
 "metadata": {},
 "output_type": "execute_result"
 }
],
 "source": [
 "# New GUI window--should *NOT* have the visual settings of inline\n",
 "%matplotlib qt\n",
 "plt.plot([1,2,3])"
]
},
{
 "metadata": {
 "kernel_spec": {
 "display_name": "Python 3",
 "language": "python",
 "name": "python3"
 },
 "language_info": {
 "codemirror_mode": {
 "name": "ipython",
 "version": 3
 },
 "file_extension": ".py",
 "mimetype": "text/x-python",
 "name": "python",
 "nbconvert_exporter": "python",
 "pygments_lexer": "ipython3",
 "version": "3.4.2"
 }
 },
 "nbformat": 4,

```

```
"nbformat_minor": 0
}
```

# 1.476 json 1.8.3

## 1.476.1 Available under license :

JSON-JRuby is copyrighted free software by Daniel Luz <mernen at gmail dot com>, and is a derivative work of Florian Frank's json library <flori at ping dot de>.

You can redistribute it and/or modify it under either the terms of the GPL version 2 (see the file GPL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
  - b) use the modified software only within your corporation or organization.
  - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
  - d) make other distribution arrangements with the author.
3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:
  - a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
  - b) accompany the distribution with the machine-readable source of the software.
  - c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
  - d) make other distribution arrangements with the author.
4. You may modify and include the part of the software into any other



software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.
6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE

### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.co.jp>. You can redistribute it and/or modify it under either the terms of the GPL (see GPL file), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
  - b) use the modified software only within your corporation or organization.
  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided.
  - d) make other distribution arrangements with the author.
3. You may distribute the software in object code or executable form, provided that you do at least ONE of the following:
  - a) distribute the executables and library files of the software,



together with instructions (in the manual page or equivalent)  
on where to get the original distribution.

b) accompany the distribution with the machine-readable source of  
the software.

c) give non-standard executables non-standard names, with  
instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other  
software (possibly commercial). But some files in the distribution  
are not written by the author, so that they are not under this terms.

They are gc.c(partly), utils.c(partly), regex.[ch], st.[ch] and some  
files under the ./missing directory. See each file for the copying  
condition.

5. The scripts and library files supplied as input to or produced as  
output from the software do not automatically fall under the  
copyright of the software, but belong to whomever generated them,  
and may be sold commercially, and may be aggregated with this  
software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR  
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE.

## 1.477 JSON in Java [package org.json] 2011-02-02

### 1.477.1 Available under license :

```
package org.json;
```

```
/*
```

```
Copyright (c) 2002 JSON.org
```

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*/

/\*\*

\* This provides static methods to convert comma delimited text into a  
\* JSONArray, and to convert a JSONArray into comma delimited text. Comma  
\* delimited text is a very popular format for data interchange. It is  
\* understood by most database, spreadsheet, and organizer programs.

\* <p>

\* Each row of text represents a row in a table or a data record. Each row  
\* ends with a NEWLINE character. Each row contains one or more values.  
\* Values are separated by commas. A value can contain any character except  
\* for comma, unless it is wrapped in single quotes or double quotes.

\* <p>

\* The first row usually contains the names of the columns.

\* <p>

\* A comma delimited list can be converted into a JSONArray of JSONObject.  
\* The names for the elements in the JSONObject can be taken from the names  
\* in the first row.

\* @author JSON.org

\* @version 2010-12-24

\*/

```
public class CDL {
```

```
 /**
```

```
 * Get the next value. The value can be wrapped in quotes. The value can
 * be empty.
```

```
 * @param x A JSONTokener of the source text.
```

```
 * @return The value string, or null if empty.
```

```
 * @throws JSONException if the quoted string is badly formed.
```

```
 */
```

```
 private static String getValue(JSONTokener x) throws JSONException {
```

```
 char c;
```

```
 char q;
```

```
 StringBuffer sb;
```

```
 do {
```

```

 c = x.next();
 } while (c == ' ' || c == '\t');
 switch (c) {
 case 0:
 return null;
 case '"':
 case '\':
 q = c;
 sb = new StringBuffer();
 for (;;) {
 c = x.next();
 if (c == q) {
 break;
 }
 if (c == 0 || c == '\n' || c == '\r') {
 throw x.syntaxError("Missing close quote '" + q + "'.");
 }
 sb.append(c);
 }
 return sb.toString();
 case ',':
 x.back();
 return "";
 default:
 x.back();
 return x.nextTo(',');
 }
}

/**
 * Produce a JSONArray of strings from a row of comma delimited values.
 * @param x A JSONTokener of the source text.
 * @return A JSONArray of strings.
 * @throws JSONException
 */
public static JSONArray rowToJSONArray(JSONTokener x) throws JSONException {
 JSONArray ja = new JSONArray();
 for (;;) {
 String value = getValue(x);
 char c = x.next();
 if (value == null ||
 (ja.length() == 0 && value.length() == 0 && c != ',')) {
 return null;
 }
 ja.put(value);
 for (;;) {
 if (c == ',') {
 break;

```

```

 }
 if (c != ' ') {
 if (c == '\n' || c == '\r' || c == 0) {
 return ja;
 }
 throw x.syntaxError("Bad character '" + c + "' (" +
 (int)c + ").");
 }
 c = x.next();
}
}
}

/**
 * Produce a JSONObject from a row of comma delimited text, using a
 * parallel JSONArray of strings to provides the names of the elements.
 * @param names A JSONArray of names. This is commonly obtained from the
 * first row of a comma delimited text file using the rowToJSONArray
 * method.
 * @param x A JSONTokener of the source text.
 * @return A JSONObject combining the names and values.
 * @throws JSONException
 */
public static JSONObject rowToJSONObject(JSONArray names, JSONTokener x)
 throws JSONException {
 JSONArray ja = rowToJSONArray(x);
 return ja != null ? ja.toJSONObject(names) : null;
}

/**
 * Produce a comma delimited text row from a JSONArray. Values containing
 * the comma character will be quoted. Troublesome characters may be
 * removed.
 * @param ja A JSONArray of strings.
 * @return A string ending in NEWLINE.
 */
public static String rowToString(JSONArray ja) {
 StringBuffer sb = new StringBuffer();
 for (int i = 0; i < ja.length(); i += 1) {
 if (i > 0) {
 sb.append(',');
 }
 Object object = ja.opt(i);
 if (object != null) {
 String string = object.toString();
 if (string.length() > 0 && (string.indexOf(',') >= 0 ||
 string.indexOf('\n') >= 0 || string.indexOf('\r') >= 0 ||
 string.indexOf(0) >= 0 || string.charAt(0) == '"')) {

```

```

 sb.append("");
 int length = string.length();
 for (int j = 0; j < length; j += 1) {
 char c = string.charAt(j);
 if (c >= ' ' && c != '"') {
 sb.append(c);
 }
 }
 sb.append("");
 } else {
 sb.append(string);
 }
}
}
sb.append('\n');
return sb.toString();
}

/**
 * Produce a JSONArray of JSONObject from a comma delimited text string,
 * using the first row as a source of names.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObject.
 * @throws JSONException
 */
public static JSONArray toJSONArray(String string) throws JSONException {
 return toJSONArray(new JSONObject(string));
}

/**
 * Produce a JSONArray of JSONObject from a comma delimited text string,
 * using the first row as a source of names.
 * @param x The JSONObject containing the comma delimited text.
 * @return A JSONArray of JSONObject.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONObject x) throws JSONException {
 return toJSONArray(rowToJSONArray(x), x);
}

/**
 * Produce a JSONArray of JSONObject from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObject.
 * @throws JSONException
 */

```

```

public static JSONArray toJSONArray(JSONArray names, String string)
 throws JSONException {
 return toJSONArray(names, new JSNTokener(string));
}

/**
 * Produce a JSONArray of JSONObject from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param x A JSNTokener of the source text.
 * @return A JSONArray of JSONObject.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, JSNTokener x)
 throws JSONException {
 if (names == null || names.length() == 0) {
 return null;
 }
 JSONArray ja = new JSONArray();
 for (;;) {
 JSONObject jo = rowToJSONObject(names, x);
 if (jo == null) {
 break;
 }
 ja.put(jo);
 }
 if (ja.length() == 0) {
 return null;
 }
 return ja;
}

/**
 * Produce a comma delimited text from a JSONArray of JSONObject. The
 * first row will be a list of names obtained by inspecting the first
 * JSONObject.
 * @param ja A JSONArray of JSONObject.
 * @return A comma delimited text.
 * @throws JSONException
 */
public static String toString(JSONArray ja) throws JSONException {
 JSONObject jo = ja.optJSONObject(0);
 if (jo != null) {
 JSONArray names = jo.names();
 if (names != null) {
 return rowToString(names) + toString(names, ja);
 }
 }
}

```

```

 }
 return null;
}

/**
 * Produce a comma delimited text from a JSONArray of JSONObjects using
 * a provided list of names. The list of names is not included in the
 * output.
 * @param names A JSONArray of strings.
 * @param ja A JSONArray of JSONObjects.
 * @return A comma delimited text.
 * @throws JSONException
 */
public static String toString(JSONArray names, JSONArray ja)
 throws JSONException {
 if (names == null || names.length() == 0) {
 return null;
 }
 StringBuffer sb = new StringBuffer();
 for (int i = 0; i < ja.length(); i += 1) {
 JSONObject jo = ja.optJSONObject(i);
 if (jo != null) {
 sb.append(rowToString(jo.toJSONArray(names)));
 }
 }
 return sb.toString();
}
}

```

## 1.478 json-stringify-safe 5.0.1

### 1.478.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.479 json-stringify-safe 5.0.1

## 1.479.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.480 json4s-ast\_2.10 3.2.10

## 1.480.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.



"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.481 json4s-core\_2.10 3.2.10

## 1.481.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.



See the License for the specific language governing permissions and limitations under the License.

# 1.482 json4s-jackson\_2.10 3.2.10

## 1.482.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.483 jsonify 0.0.0

### 1.483.1 Available under license :

```
{
 "name" : "jsonify",
 "version" : "0.0.0",
 "description" : "JSON without touching any globals",
 "main" : "index.js",
 "directories" : {
 "lib" : ".",
 "test" : "test"
 },
 "devDependencies" : {
 "tap" : "0.4.x",
 "garbage" : "0.0.x"
 },
 "scripts" : {
 "test" : "tap test"
 },
 "repository" : {
 "type" : "git",
 "url" : "http://github.com/substack/jsonify.git"
 },
 "keywords" : [
 "json",
 "browser"
],
 "author" : {
 "name" : "Douglas Crockford",
```

```
"url" : "http://crockford.com/"
},
"license" : "Public Domain"
}
```

## 1.484 jsonpointer 1.1.0

### 1.484.1 Available under license :

# JSON Pointer for nodejs

This is an implementation of [JSON Pointer](<http://tools.ietf.org/html/draft-ietf-appsawg-json-pointer-08>).

## Usage

```
var jsonpointer = require("jsonpointer");
var obj = { foo: 1, bar: { baz: 2}, qux: [3, 4, 5]};
var one = jsonpointer.get(obj, "/foo");
var two = jsonpointer.get(obj, "/bar/baz");
var three = jsonpointer.get(obj, "/qux/0");
var four = jsonpointer.get(obj, "/qux/1");
var five = jsonpointer.get(obj, "/qux/2");
```

```
jsonpointer.set(obj, "/foo", 6); // obj.foo = 6;
```

## Testing

```
$ node test.js
All tests pass.
$
```

[![Build Status](<https://travis-ci.org/janl/node-jsonpointer.png?branch=master>)](undefined)

## Author

(c) 2011 Jan Lehnardt <[jan@apache.org](mailto:jan@apache.org)>

## License

MIT License.

## 1.485 jsp-api 2.1

## 1.485.1 Available under license :

```
/*
 * The contents of this file are subject to the terms
 * of the Common Development and Distribution License
 * (the "License"). You may not use this file except
 * in compliance with the License.
 *
 * You can obtain a copy of the license at
 * glassfish/bootstrap/legal/CDDLv1.0.txt or
 * https://glassfish.dev.java.net/public/CDDLv1.0.html.
 * See the License for the specific language governing
 * permissions and limitations under the License.
 *
 * When distributing Covered Code, include this CDDL
 * HEADER in each file and include the License file at
 * glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
 * add the following below this CDDL HEADER, with the
 * fields enclosed by brackets "[]" replaced with your
 * own identifying information: Portions Copyright [yyyy]
 * [name of copyright owner]
 *
 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
 *
 * Portions Copyright Apache Software Foundation.
 */
```

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0 1.

Definitions.

- 1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.
- 1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
- 1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. Executable means the Covered Software in any form other than Source Code.
- 1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.
- 1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. License means this document.
- 1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial

grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger



Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this

License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

#### 4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

#### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the

Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License

and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

# 1.486 jsp-api 2.0

## 1.486.1 Available under license :

```
/*
 * The contents of this file are subject to the terms
 * of the Common Development and Distribution License
 * (the "License"). You may not use this file except
 * in compliance with the License.
 *
 * You can obtain a copy of the license at
 * glassfish/bootstrap/legal/CDDLv1.0.txt or
 * https://glassfish.dev.java.net/public/CDDLv1.0.html.
 * See the License for the specific language governing
 * permissions and limitations under the License.
 *
 * When distributing Covered Code, include this CDDL
 * HEADER in each file and include the License file at
 * glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
 * add the following below this CDDL HEADER, with the
 * fields enclosed by brackets "[]" replaced with your
 * own identifying information: Portions Copyright [yyyy]
 * [name of copyright owner]
 *
 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
 *
 * Portions Copyright Apache Software Foundation.
 */
```

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0 1.

Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

- 1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. Executable means the Covered Software in any form other than Source Code.
- 1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.
- 1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. License means this document.
- 1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.
- 1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.
- 1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.
- 1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.
- 1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.
- 1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted:

(1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor

as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

#### 4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.



5. **DISCLAIMER OF WARRANTY.** COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. **TERMINATION.**

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. **LIMITATION OF LIABILITY.** UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION,

DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

## 1.487 jsr305 1.3.9 :ICS

### 1.487.1 Available under license :

Copyright (c) 2007-2009, JSR305 expert group  
All rights reserved.

<http://www.opensource.org/licenses/bsd-license.php>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the JSR305 expert group nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.488 jta 1.1

## 1.488.1 Available under license :

```
/*
 * The contents of this file are subject to the terms
 * of the Common Development and Distribution License
 * (the License). You may not use this file except in
 * compliance with the License.
 *
 * You can obtain a copy of the license at
 * https://glassfish.dev.java.net/public/CDDLv1.0.html or
 * glassfish/bootstrap/legal/CDDLv1.0.txt.
 * See the License for the specific language governing
 * permissions and limitations under the License.
 *
 * When distributing Covered Code, include this CDDL
 * Header Notice in each file and include the License file
 * at glassfish/bootstrap/legal/CDDLv1.0.txt.
 * If applicable, add the following below the CDDL Header,
 * with the fields enclosed by brackets [] replaced by
 * you own identifying information:
 * "Portions Copyrighted [year] [name of copyright owner]"
 *
 * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
 */
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0 1.
```

### Definitions.

- 1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.
- 1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
- 1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. Executable means the Covered Software in any form other than Source Code.
- 1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.
- 1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. License means this document.
- 1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer

or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

#### 4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

#### 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer

is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.



NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

## 1.489 jul-to-slf4j-1.7.5.jar 1.7.5

### 1.490 Junit 4.10

#### 1.490.1 Available under license :

Common Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

#### 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
  - i) changes to the Program, and
  - ii) additions to the Program;where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

## 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
  - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
  - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
  - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
  - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

#### 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF

THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED  
HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

BSD License

Copyright (c) 2000-2006, [www.hamcrest.org](http://www.hamcrest.org)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.491 Junit 3.8.1

### 1.491.1 Available under license :

Common Public License Version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

#### 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
  - i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby

assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,



STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed.

In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the

intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

## 1.492 junk 1.0.2

### 1.492.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.493 Kafka\_2.10 0.8.1.1

### 1.493.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Kafka

Copyright 2012 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

## 1.494 kaminari 0.16.2

### 1.494.1 Available under license :

Copyright (c) 2011 Akira Matsuda

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.495 karma 0.12.37

### 1.495.1 Available under license :

The MIT License

Copyright (C) 2011-2014 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS

FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.496 karma-chrome-launcher 0.1.12

### 1.496.1 Available under license :

The MIT License

Copyright (C) 2011-2013 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.497 karma-cli 0.0.4

### 1.497.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.



THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.498 karma-commonjs 0.0.8

### 1.498.1 Available under license :

The MIT License

Copyright (C) 2011-2013 Titanium I.T. LLC.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.499 karma-jasmine 0.2.3

### 1.499.1 Available under license :

The MIT License

Copyright (C) 2011-2013 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.500 karma-junit-reporter 0.2.2

### 1.500.1 Available under license :

The MIT License

Copyright (C) 2011-2013 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.501 karma-ng-html2js-preprocessor 0.1.2

### 1.501.1 Available under license :

The MIT License

Copyright (C) 2011-2013 Vojta Jna and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do

so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.502 karma-phantomjs-launcher 0.1.4

### 1.502.1 Available under license :

The MIT License

Copyright (C) 2011-2013 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.503 karma-spec-reporter 0.0.12

### 1.503.1 Available under license :

Copyright (C) 2014 Michael Lex

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.504 keepalived 1.2.20

### 1.504.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that

you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the

notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to



be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED

TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont\_track\_primary, nopreempt, preempt\_delay, and misc\_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u\_threshold and l\_threshold support.

Willy Tarreau, <w at 1wt.eu> :

- o Extended VRRP framework to support floating priority.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program



specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General

Public License instead of this License.

# 1.505 kew 0.4.0

## 1.505.1 Available under license :

Copyright 2012 The Obvious Corporation.  
<http://obvious.com/>

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

-----  
Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity  
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.506 keyczar 0.71c

### 1.506.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a



cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.507 Kryo 2.21

### 1.507.1 Available under license :

New BSD License

<http://www.opensource.org/licenses/bsd-license.php>

## 1.508 latest-version 1.0.1

### 1.508.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.509 libcgrou 0.40 :rc1

### 1.509.1 Available under license :

#### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations  
below.

When we speak of free software, we are referring to freedom of use,  
not price. Our General Public Licenses are designed to make sure that  
you have the freedom to distribute copies of free software (and charge  
for this service if you wish); that you receive source code or can get  
it if you want it; that you can change the software and use pieces of  
it in new free programs; and that you are informed that you can do  
these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.



4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting

redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.510 libconfuse 2\_7

## 1.510.1 Available under license :

```
/*
 * Copyright (c) 2002,2003,2007 Martin Hedenfalk <martin@bzero.se>
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */
```

## 1.511 libevent 1.4.13-stable

### 1.511.1 Available under license :

Libevent is covered by a 3-clause BSD license. Below is an example. Individual files may have different authors.

```
/*
 * Copyright (c) 2000-2007 Niels Provos <provos@citi.umich.edu>
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
```

\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

# 1.512 libgpg-error 1.7

## 1.512.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.



Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

## How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these

rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages



are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and

"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).



To apply these terms, attach the following notices to the library.  
It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.513 libmng 1.0.10

### 1.513.1 Available under license :

```
/* ***** */
/* * */
/* * COPYRIGHT NOTICE: */
/* * */
/* * Copyright (c) 2000-2007 Gerard Juyn (gerard@libmng.com) * */
```

```

/* * [You may insert additional notices after this sentence if you modify * */
/* * this source] * */
/* * * */
/* * For the purposes of this copyright and license, "Contributing Authors" * */
/* * is defined as the following set of individuals: * */
/* * * */
/* * Gerard Juyn * */
/* * Glenn Randers-Pehrson * */
/* * * */
/* * The MNG Library is supplied "AS IS". The Contributing Authors * */
/* * disclaim all warranties, expressed or implied, including, without * */
/* * limitation, the warranties of merchantability and of fitness for any * */
/* * purpose. The Contributing Authors assume no liability for direct, * */
/* * indirect, incidental, special, exemplary, or consequential damages, * */
/* * which may result from the use of the MNG Library, even if advised of * */
/* * the possibility of such damage. * */
/* * * */
/* * Permission is hereby granted to use, copy, modify, and distribute this * */
/* * source code, or portions hereof, for any purpose, without fee, subject * */
/* * to the following restrictions: * */
/* * * */
/* * 1. The origin of this source code must not be misrepresented; * */
/* * you must not claim that you wrote the original software. * */
/* * * */
/* * 2. Altered versions must be plainly marked as such and must not be * */
/* * misrepresented as being the original source. * */
/* * * */
/* * 3. This Copyright notice may not be removed or altered from any source * */
/* * or altered source distribution. * */
/* * * */
/* * The Contributing Authors specifically permit, without fee, and * */
/* * encourage the use of this source code as a component to supporting * */
/* * the MNG and JNG file format in commercial products. If you use this * */
/* * source code in a product, acknowledgment would be highly appreciated. * */
/* * * */
/* * ***** */
/* * * */
/* * Parts of this software have been adapted from the libpng package. * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package. * */
/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* * * */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */

```

```
/* * (future modifications may include some more support for creation */
/* * and or editing) */
/* * */
/* **** */
```

# 1.514 libpng 1.2.49

## 1.514.1 Available under license :

This copy of the libpng notices is provided for your convenience. In case of any discrepancy between this copy and the notices in the file png.h that is included in the libpng distribution, the latter shall prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

This code is released under the libpng license.

libpng versions 1.2.6, August 15, 2004, through 1.2.49, March 29, 2012, are Copyright (c) 2004, 2006-2009 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.2.5 with the following individual added to the list of Contributing Authors

Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5 - October 3, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors

Simon-Pierre Cadieux  
Eric S. Raymond  
Gilles Vollant

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998, 1999 Glenn Randers-Pehrson, and are

distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane  
Glenn Randers-Pehrson  
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are  
Copyright (c) 1996, 1997 Andreas Dilger  
Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler  
Kevin Bracey  
Sam Bushell  
Magnus Holmgren  
Greg Roelofs  
Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are  
Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger  
Dave Martindale  
Guy Eric Schalnat  
Paul Schmidt  
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.
2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

A "png\_get\_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative.

Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
March 29, 2012

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it

if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as



distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

-----  
Copyright (c) 1998-2008 Greg Roelofs. All rights reserved.

This software is provided "as is," without warranty of any kind, express or implied. In no event shall the author or contributors be held liable for any damages arising in any way from the use of this software.

The contents of this file are DUAL-LICENSED. You may modify and/or redistribute this software according to the terms of one of the following two licenses (at your option):

LICENSE 1 ("BSD-like with advertising clause"):

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:



/\*

\* COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

\*

\* If you modify libpng you may insert additional notices immediately following  
\* this sentence.

\*

\* This code is released under the libpng license.

\*

\* libpng versions 1.2.6, August 15, 2004, through 1.2.49, March 29, 2012, are

\* Copyright (c) 2004, 2006-2011 Glenn Randers-Pehrson, and are

\* distributed according to the same disclaimer and license as libpng-1.2.5

\* with the following individual added to the list of Contributing Authors:

\*

\* Cosmin Truta

\*

\* libpng versions 1.0.7, July 1, 2000, through 1.2.5, October 3, 2002, are

\* Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are

\* distributed according to the same disclaimer and license as libpng-1.0.6

\* with the following individuals added to the list of Contributing Authors:

\*

\* Simon-Pierre Cadieux

\* Eric S. Raymond

\* Gilles Vollant

\*

\* and with the following additions to the disclaimer:

\*

\* There is no warranty against interference with your enjoyment of the

\* library or against infringement. There is no warranty that our

\* efforts or the library will fulfill any of your particular purposes

\* or needs. This library is provided with all faults, and the entire

\* risk of satisfactory quality, performance, accuracy, and effort is with

\* the user.

\*

\* libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are

\* Copyright (c) 1998, 1999, 2000 Glenn Randers-Pehrson, and are

\* distributed according to the same disclaimer and license as libpng-0.96,

\* with the following individuals added to the list of Contributing Authors:

\*

\* Tom Lane

\* Glenn Randers-Pehrson

\* Willem van Schaik

\*

\* libpng versions 0.89, June 1996, through 0.96, May 1997, are

\* Copyright (c) 1996, 1997 Andreas Dilger

\* Distributed according to the same disclaimer and license as libpng-0.88,

\* with the following individuals added to the list of Contributing Authors:

\*

\* John Bowler

\* Kevin Bracey  
\* Sam Bushell  
\* Magnus Holmgren  
\* Greg Roelofs  
\* Tom Tanner  
\*  
\* libpng versions 0.5, May 1995, through 0.88, January 1996, are  
\* Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.  
\*  
\* For the purposes of this copyright and license, "Contributing Authors"  
\* is defined as the following set of individuals:  
\*  
\* Andreas Dilger  
\* Dave Martindale  
\* Guy Eric Schalnat  
\* Paul Schmidt  
\* Tim Wegner  
\*  
\* The PNG Reference Library is supplied "AS IS". The Contributing Authors  
\* and Group 42, Inc. disclaim all warranties, expressed or implied,  
\* including, without limitation, the warranties of merchantability and of  
\* fitness for any purpose. The Contributing Authors and Group 42, Inc.  
\* assume no liability for direct, indirect, incidental, special, exemplary,  
\* or consequential damages, which may result from the use of the PNG  
\* Reference Library, even if advised of the possibility of such damage.  
\*  
\* Permission is hereby granted to use, copy, modify, and distribute this  
\* source code, or portions hereof, for any purpose, without fee, subject  
\* to the following restrictions:  
\*  
\* 1. The origin of this source code must not be misrepresented.  
\*  
\* 2. Altered versions must be plainly marked as such and  
\* must not be misrepresented as being the original source.  
\*  
\* 3. This Copyright notice may not be removed or altered from  
\* any source or altered source distribution.  
\*  
\* The Contributing Authors and Group 42, Inc. specifically permit, without  
\* fee, and encourage the use of this source code as a component to  
\* supporting the PNG file format in commercial products. If you use this  
\* source code in a product, acknowledgment is not required but would be  
\* appreciated.  
\*/

<snip>

# 1.515 libthrift 0.7.0

## 1.515.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes



of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.516 libwebsocket 1.4-chrome43-firefox-36

### 1.516.1 Available under license :

Libwebsockets and included programs are provided under the terms of the GNU  
Library General Public License (LGPL) 2.1, with the following exceptions:

1) Static linking of programs with the libwebsockets library does not  
constitute a derivative work and does not require the author to provide  
source code for the program, use the shared libwebsockets libraries, or  
link their program against a user-supplied version of libwebsockets.

If you link the program to a modified version of libwebsockets, then the  
changes to libwebsockets must be provided under the terms of the LGPL in  
sections 1, 2, 2, and 4.

2) You do not have to provide a copy of the libwebsockets license with  
programs that are linked to the libwebsockets library, nor do you have to  
identify the libwebsockets license in your program or documentation as  
required by section 6 of the LGPL.

However, programs must still identify their use of libwebsockets. The  
following example statement can be included in user documentation to  
satisfy this requirement:

"[program] is based in part on the work of the libwebsockets project  
(<http://libwebsockets.org>)"

GNU LESSER GENERAL PUBLIC LICENSE  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is

modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the



entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.517 liftoff 2.2.0

### 1.517.1 Available under license :

Copyright (c) 2014 Tyler Kellen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.518 load-json-file 1.1.0

## 1.518.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.519 Iodash.\_basecopy 3.0.1

## 1.519.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND



NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.520 Iodash.\_basetostring 3.0.1

### 1.520.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.521 Iodash.\_basevalues 3.0.0

### 1.521.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js 1.7.0, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.522 Iodash.\_createpadding 3.6.1

### 1.522.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.523 Iodash.\_getnative 3.9.1

### 1.523.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.524 Iodash.\_isiterateecall 3.0.9

### 1.524.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.525 Iodash.\_reinterpolate 3.0.0

## 1.525.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js 1.7.0, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.526 Iodash.isarray 3.0.4

## 1.526.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.527 Iodash.keys 3.1.2

### 1.527.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.528 Iodash.pad 3.1.1

### 1.528.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.529 Iodash.padleft 3.1.1

### 1.529.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.530 Iodash.padright 3.1.1

### 1.530.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.531 Iodash.repeat 3.0.1

### 1.531.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.532 Iodash.restparam 3.6.1

## 1.532.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.533 Iodash.template 3.6.2

## 1.533.1 Available under license :

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF



MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.534 Log4J 1.2.16

### 1.534.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [2011] [Versly,Inc.]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache log4j

Copyright 2007 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>). Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to You under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.535 log4j-api 2.3

### 1.535.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A



PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Log4j API  
Copyright 1999-2015 Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

# 1.536 log4j-core 2.3

## 1.536.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Log4j Core

Copyright 1999-2012 Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

ResolverUtil.java

Copyright 2005-2006 Tim Fennell

# 1.537 log4j-slf4j-impl 2.3

## 1.537.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and



(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

Apache Log4j SLF4J Binding  
Copyright 1999-2015 Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

# 1.538 logback 1.0.13

## 1.538.1 Available under license :

Logback: the reliable, generic, fast and flexible logging framework.  
Copyright (C) 1999-2012, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under either the terms of the Eclipse Public License v1.0 as published by the Eclipse Foundation

or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1 as published by the Free Software Foundation.  
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

### 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the

Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this

license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no

rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for



you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and



conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

^L

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.539 Lombok 1.16.6

### 1.539.1 Available under license :

Copyright " 2009-2015 The Project Lombok Authors, licensed under the MIT license.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.540 loud-rejection 1.2.0

### 1.540.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.541 lowercase-keys 1.0.0

## 1.541.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.542 Iru-cache 2.6.4

### 1.542.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# Authors, sorted by whether or not they are me

Isaac Z. Schlueter <i@izs.me>

Brian Cottingham <spiffytech@gmail.com>

Carlos Brito Lage <carlos@carloslage.net>

Jesse Dailey <jesse.dailey@gmail.com>

Kevin O'Hara <kevinohara80@gmail.com>  
Marco Rogers <marco.rogers@gmail.com>  
Mark Cavage <mcavage@gmail.com>  
Marko Mikulicic <marko.mikulicic@isti.cnr.it>  
Nathan Rajlich <nathan@tootallnate.net>  
Satheesh Natesan <snateshan@myspace-inc.com>  
Trent Mick <trentm@gmail.com>  
ashleybrener <ashley@starlogik.com>  
n4kz <n4kz@n4kz.com>

# 1.543 Iru-cache 2.6.5

## 1.543.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# Authors, sorted by whether or not they are me

Isaac Z. Schlueter <i@izs.me>  
Brian Cottingham <spiffytech@gmail.com>  
Carlos Brito Lage <carlos@carloslage.net>  
Jesse Dailey <jesse.dailey@gmail.com>  
Kevin O'Hara <kevinohara80@gmail.com>  
Marco Rogers <marco.rogers@gmail.com>  
Mark Cavage <mcavage@gmail.com>  
Marko Mikulicic <marko.mikulicic@isti.cnr.it>  
Nathan Rajlich <nathan@tootallnate.net>  
Satheesh Natesan <snateshan@myspace-inc.com>  
Trent Mick <trentm@gmail.com>  
ashleybrener <ashley@starlogik.com>  
n4kz <n4kz@n4kz.com>

# 1.544 Iru-cache 2.7.3

## 1.544.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.545 Iru-cache 2.7.3

## 1.545.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.546 Ishw B.02.17

## 1.546.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the

program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third



parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

# 1.547 lua 5.1.4

## 1.547.1 Available under license :

Lua License

-----

Lua is licensed under the terms of the MIT license reproduced below.  
This means that Lua is free software and can be used for both academic  
and commercial purposes at absolutely no cost.

For details and rationale, see <http://www.lua.org/license.html> .

=====

Copyright (C) 1994-2008 Lua.org, PUC-Rio.

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
THE SOFTWARE.

=====

(end of COPYRIGHT)

# 1.548 Iz4 1.2.0

## 1.548.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and



- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.549 LZ4 1.2.0 :r119

### 1.549.1 Available under license :

LZ4 Library

Copyright (c) 2011-2014, Yann Collet

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free

software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this

License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes



make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 1.550 macos-release 1.0.0

### 1.550.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.551 mail 2.5.4

### 1.551.1 Available under license :

Copyright (c) 2009-2013 Mikel Lindsaar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.552 map-obj 1.0.1

## 1.552.1 Available under license :

```
map-obj [![Build Status](https://travis-ci.org/sindresorhus/map-obj.svg?branch=master)](https://travis-ci.org/sindresorhus/map-obj)
```

> Map object keys and values into a new object

```
Install
```

```
...
```

```
$ npm install --save map-obj
```

```
...
```

```
Usage
```

```
```js
```

```
var mapObj = require('map-obj');
```

```
var newObject = mapObj({foo: 'bar'}, function (key, value, object) {
```

```
  // first element is the new key and second is the new value
```

```
  // here we reverse the order
```

```
  return [value, key];
```

```
});
```

```
//=> {bar: 'foo'}
```

```
```
```

```
License
```

```
MIT © [Sindre Sorhus](http://sindresorhus.com)
```

## 1.553 MaxMind GeoIP API 1.2.14

### 1.553.1 Available under license :

Lesser General Public License (LGPL) v 2.1

<http://www.gnu.org/licenses/lgpl-2.1.txt>

## 1.554 md5-hex 1.1.0

# 1.555 md5-o-matic 0.1.1

## 1.555.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Trent Millar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.556 media-typer 0.3.0

## 1.556.1 Available under license :

(The MIT License)

Copyright (c) 2014 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.557 method-override 2.3.5

### 1.557.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.558 method-override 2.3.5

### 1.558.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.559 methods 1.1.1

### 1.559.1 Available under license :

(The MIT License)

Copyright (c) 2013-2014 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.560 metrics-graphite 3.0.0

## 1.560.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,



the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.561 metrics-json 3.0.0

## 1.561.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity  
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,  
including but not limited to software source code, documentation  
source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.562 metrics-jvm 3.0.0

## 1.562.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all



other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.563 metrics-opentsdb-metrics-opentsdb

## 1.0.6

## 1.563.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]



Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.564 micromatch 2.3.1

### 1.564.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
THE SOFTWARE.

## 1.565 micromatch 2.2.0

### 1.565.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.566 mime 1.3.4

### 1.566.1 Available under license :

Copyright (c) 2010 Benjamin Thomas, Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.567 mime 1.2.11

## 1.567.1 Available under license :

Copyright (c) 2010 Benjamin Thomas, Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.568 mime 1.2.11

### 1.568.1 Available under license :

Copyright (c) 2010 Benjamin Thomas, Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.569 mime-db 1.12.0

## 1.569.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong [me@jongleberry.com](mailto:me@jongleberry.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.570 mime-types 1.25.1

## 1.570.1 Available under license :

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
  - b) use the modified Package only within your corporation or organization.
  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
  - d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that

you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the



notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED

TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

== Licence

This software is available under three licenses: the GNU GPL version 2 (or at your option, a later version), the Perl Artistic license, or the MIT license. Note that my preference for licensing is the MIT license, but the original Perl MIME::Types was dually originally licensed with the Perl Artistic and the GNU GPL ("the same terms as Perl itself") and given that the Ruby implementation hewed pretty closely to the Perl version, I must maintain the additional licensing terms.

\* Copyright 2003&#128;&#147;2013 Austin Ziegler.

\* Adapted from MIME::Types (Perl) by Mark Overmeer.

=== MIT License

this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Perl Artistic License (version 2)

See the file docs/artistic.txt in the main distribution.

=== GNU GPL version 2

See the file docs/COPYING.txt in the main distribution.

Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

This license establishes the terms under which a given free software Package may be copied, modified, distributed, and/or redistributed. The intent is that the Copyright Holder maintains some artistic control over the development of that Package while still keeping the Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this license directly with the Copyright Holder of a given Package. If the terms of this license do not permit the full use that you propose to make of the Package, you should contact the Copyright Holder and seek a different licensing arrangement.

#### Definitions

"Copyright Holder" means the individual(s) or organization(s) named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other material to the Package, in accordance with the Copyright Holder's procedures.

"You" and "your" means any person who would like to copy, distribute, or modify the Package.

"Package" means the collection of files distributed by the Copyright Holder, and derivatives of that collection and/or of those files. A given Package may consist of either the Standard Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its

current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or translation of the Source form.

#### Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

#### Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

#### Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard features, executables, or modules, and provided that you do at least ONE of the following:

- (a) make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.
- (b) ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.
- (c) allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under
  - (i) the Original License or
  - (ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

#### Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease



distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

#### Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction, provided the result does not expose a direct interface to the Package.

#### Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

#### General Provisions

(10) Any use, modification, and distribution of the Standard or Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation (including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty: THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.571 mime-types 2.1.3

## 1.571.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.572 mime-types 2.1.3

## 1.572.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.573 mime-types 2.0.14

### 1.573.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong me@jungleberry.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.574 minijasminenode master

### 1.574.1 Available under license :

The MIT License

Copyright (c) 2014 Julie Ralph

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.575 minimatch 2.0.10

### 1.575.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.576 minimatch 0.3.0

### 1.576.1 Available under license :

Copyright 2009, 2010, 2011 Isaac Z. Schlueter.  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following

conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.577 minimatch 3.0.0

### 1.577.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.578 minimist 0.0.8

### 1.578.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all

copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.579 minitest 5.8.0

## 1.580 minitest 5.8.4

## 1.581 minlog 1.2

### 1.581.1 Available under license :

The BSD 3-Clause License

The following is a BSD 3-Clause ("BSD New" or "BSD Simplified") license template. To generate your own license, change the values of OWNER, ORGANIZATION and YEAR from their original values as given here, and substitute your own.

Note: You may omit clause 3 and still be OSD-conformant. Despite its colloquial name "BSD New", this is not the newest version of the BSD license; it was followed by the even newer BSD-2-Clause version, sometimes known as the "Simplified BSD License". On January 9th, 2008 the OSI Board approved BSD-2-Clause, which is used by FreeBSD and others. It omits the final "no-endorsement" clause and is thus roughly equivalent to the MIT License.

Historical Background: The original license used on BSD Unix had four clauses. The advertising clause (the third of four clauses) required you to acknowledge use of U.C. Berkeley code in your advertising of any product using that code. It was officially rescinded by the Director of the Office of Technology Licensing of the University of California on July 22nd, 1999. He states that clause 3 is "hereby deleted in its entirety." The four clause license has not been approved by OSI. The license below does not contain the advertising clause.

This prelude is not part of the license.

<OWNER> = Regents of the University of California

<ORGANIZATION> = University of California, Berkeley

<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.582 mixlib-log 1.6.0

## 1.582.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,



worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Mixin::Log NOTICE

=====

Developed at Opscode (<http://www.opscode.com>).

\* Copyright 2009, Opscode, Inc. <[legal@opscode.com](mailto:legal@opscode.com)>

Mixin::Log incorporates code from Chef. The Chef notice file follows:

Chef NOTICE

=====

Developed at Opscode (<http://www.opscode.com>).

Contributors and Copyright holders:

- \* Copyright 2008, Adam Jacob <[adam@opscode.com](mailto:adam@opscode.com)>
- \* Copyright 2008, Arjuna Christensen <[aj@hjksolutions.com](mailto:aj@hjksolutions.com)>
- \* Copyright 2008, Bryan McLellan <[btm@loftninjas.org](mailto:btm@loftninjas.org)>
- \* Copyright 2008, Ezra Zygmontowicz <[ezra@engineyard.com](mailto:ezra@engineyard.com)>
- \* Copyright 2009, Sean Cribbs <[seancribbs@gmail.com](mailto:seancribbs@gmail.com)>
- \* Copyright 2009, Christopher Brown <[cb@opscode.com](mailto:cb@opscode.com)>
- \* Copyright 2009, Thom May <[thom@clearairturbulence.org](mailto:thom@clearairturbulence.org)>

Chef incorporates code modified from Open4 (<http://www.codeforpeople.com/lib/ruby/open4/>), which was written by Ara T. Howard.

Chef incorporates code modified from Merb (<http://www.merbivore.com>), which is Copyright (c) 2008 Engine Yard.

# 1.583 mkdirp 0.3.5

## 1.583.1 Available under license :

Copyright 2010 James Halliday ([mail@substack.net](mailto:mail@substack.net))

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.584 mkpath 0.1.0

## 1.584.1 Available under license :

Copyright (C) 2012 Jonathan Rajavuori

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.585 Mockito 1.9.5

## 1.585.1 Available under license :

Copyright (c) 2000-2007, jMock.org

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of jMock nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED

TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY

WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.



6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Mockito license - MIT.

Libraries used:

Cglib - Apache License 2.0

ASM - BSD license

Mockito all distribution:

Objenesis - MIT license

Hamcrest - BSD license

Copyright (c) 2000-2005 INRIA, France Telecom  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

BSD License

Copyright (c) 2000-2006, www.hamcrest.org  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce

the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003-2008, Objenesis Team and all contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.586 mockito-all 1.9.5



## 1.586.1 Available under license :

The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Mockito license - MIT.

Libraries used:

Cglib - Apache License 2.0

ASM - BSD license

Mockito all distribution:

Objenesis - MIT license

Hamcrest - BSD license

Copyright (c) 2000-2005 INRIA, France Telecom

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

BSD License

Copyright (c) 2000-2006, [www.hamcrest.org](http://www.hamcrest.org)  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003-2008, Objenesis Team and all contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2000-2007, jMock.org

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of jMock nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.587 moment 2.6.0

### 1.587.1 Available under license :

Copyright (c) 2011-2014 Tim Wood, Iskren Chernev, Moment.js contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.588 mongo 2.2.4

### 1.588.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.



"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright (C) 2009-2015 MongoDB, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.589 mongo-java-server 1.4.3

### 1.589.1 Available under license :

Copyright (c) 2011-2013 The mongo-java-server Project.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither name of copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.590 mongodb 3.2.3

### 1.590.1 Available under license :

Mozilla Public License Version 2.0

=====

#### 1. Definitions

-----

##### 1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

##### 1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

##### 1.3. "Contribution"

means Covered Software of a particular Contributor.

##### 1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

-----

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License.

Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software;  
or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

#### 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

#### 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

#### 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

#### 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

-----

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any



Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on

behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

#### 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

#### 5. Termination

-----

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License

prior to termination shall survive termination.

```

*
*
* 6. Disclaimer of Warranty
* -----
*
* Covered Software is provided under this License on an "as is"
* basis, without warranty of any kind, either expressed, implied, or
* statutory, including, without limitation, warranties that the
* Covered Software is free of defects, merchantable, fit for a
* particular purpose or non-infringing. The entire risk as to the
* quality and performance of the Covered Software is with You.
* Should any Covered Software prove defective in any respect, You
* (not any Contributor) assume the cost of any necessary servicing,
* repair, or correction. This disclaimer of warranty constitutes an
* essential part of this License. No use of any Covered Software is
* authorized under this License except under this disclaimer.
*

```

```

*
*
* 7. Limitation of Liability
* -----
*
* Under no circumstances and under no legal theory, whether tort
* (including negligence), contract, or otherwise, shall any
* Contributor, or anyone who distributes Covered Software as
* permitted above, be liable to You for any direct, indirect,
* special, incidental, or consequential damages of any character
* including, without limitation, damages for lost profits, loss of
* goodwill, work stoppage, computer failure or malfunction, or any
* and all other commercial damages or losses, even if such party
* shall have been informed of the possibility of such damages. This
* limitation of liability shall not apply to liability for death or
* personal injury resulting from such party's negligence to the
* extent applicable law prohibits such limitation. Some
* jurisdictions do not allow the exclusion or limitation of
* incidental or consequential damages, so this exclusion and
* limitation may not apply to You.
*

```

### 8. Litigation

-----

Any litigation relating to this License may be brought only in the

courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

-----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

-----

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

## Exhibit A - Source Code Form License Notice

-----

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

## Exhibit B - "Incompatible With Secondary Licenses" Notice

-----

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

MongoDB uses third-party libraries or other resources that may be distributed under licenses different than the MongoDB software.

In the event that we accidentally failed to list a required notice, please bring it to our attention through any of the ways detailed here :

[mongodb-dev@googlegroups.com](mailto:mongodb-dev@googlegroups.com)

The attached notices are provided for information only.

For any licenses that require disclosure of source, sources are available at <https://github.com/mongodb/mongo>.

### 1) License Notice for Boost

-----

[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including

the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### 3) License Notice for PCRE

-----

<http://www.pcre.org/licence.txt>

#### PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 7 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

#### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

Copyright (c) 1997-2008 University of Cambridge  
All rights reserved.

## THE C++ WRAPPER FUNCTIONS

-----

Contributed by: Google Inc.

Copyright (c) 2007-2008, Google Inc.

All rights reserved.

## THE "BSD" LICENCE

-----

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 4) License notice for Aladdin MD5

-----

Copyright (C) 1999, 2002 Aladdin Enterprises. All rights reserved.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

L. Peter Deutsch  
ghost@aladdin.com

5) License notice for Snappy - <http://code.google.com/p/snappy/>

-----

Copyright 2005 and onwards Google Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A light-weight compression algorithm. It is designed for speed of compression and decompression, rather than for the utmost in space



savings.

For getting better compression ratios when you are compressing data with long repeated sequences or compressing data that is similar to other data, while still compressing fast, you might look at first using BMDiff and then compressing the output of BMDiff with Snappy.

6) License notice for Google Perftools (TCMalloc utility)

-----

New BSD License

Copyright (c) 1998-2006, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

7) License notice for Linenoise

-----

Copyright (c) 2010, Salvatore Sanfilippo <antirez at gmail dot com>

Copyright (c) 2010, Pieter Noordhuis <pcnoordhuis at gmail dot com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Redis nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

8) License notice for S2 Geometry Library

-----

Copyright 2005 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

9) License notice for MurmurHash

-----

Copyright (c) 2010-2012 Austin Appleby

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

10) License notice for Snowball

Copyright (c) 2001, Dr Martin Porter

All rights reserved.

THE "BSD" LICENCE

-----

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

11) License notice for yaml-cpp

-----

Copyright (c) 2008 Jesse Beder.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

12) License notice for zlib

-----

[http://www.zlib.net/zlib\\_license.html](http://www.zlib.net/zlib_license.html)

zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software

in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

### 13) License notice for 3rd party software included in the WiredTiger library

-----  
<http://source.wiredtiger.com/license.html>

| WiredTiger Distribution Files | Copyright Holder                   | License              |
|-------------------------------|------------------------------------|----------------------|
| -----                         | -----                              | -----                |
| src/include/bitstring.i       | University of California, Berkeley | BSD-3-Clause License |
| src/include/queue.h           | University of California, Berkeley | BSD-3-Clause License |
| src/os_posix/os_getopt.c      | University of California, Berkeley | BSD-3-Clause License |
| src/support/hash_city.c       | Google, Inc.                       | The MIT License      |
| src/support/hash_fnv.c        | Authors                            | Public Domain        |

Other optional 3rd party software included in the WiredTiger distribution is removed by MongoDB.

### BSD-3-CLAUSE LICENSE

-----  
<http://www.opensource.org/licenses/BSD-3-Clause>

Copyright (c) 1987, 1989, 1991, 1993, 1994

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE MIT LICENSE

-----

<http://www.opensource.org/licenses/MIT>

Copyright (c) 2011 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

14) License Notice for SpiderMonkey

-----

| ----- ----- -----                              |                  |              |  |
|------------------------------------------------|------------------|--------------|--|
| SpiderMonkey Distribution Files                | Copyright Holder | License      |  |
| ----- ----- -----                              |                  |              |  |
| js/src/jit/shared/AssemblerBuffer-x86-shared.h | Apple, Inc       | BSD-2-Clause |  |
| js/src/jit/shared/BaseAssembler-x86-shared.h   |                  |              |  |
| ----- ----- -----                              |                  |              |  |
| js/src/builtin/                                | Google, Inc      | BSD-3-Clause |  |

|                                 |              |               |  |
|---------------------------------|--------------|---------------|--|
| js/src/irregexp/                |              |               |  |
| js/src/jit/arm/                 |              |               |  |
| js/src/jit/mips/                |              |               |  |
| mfbt/double-conversion/         |              |               |  |
| ----- ----- -----               |              |               |  |
| intl/icu/source/common/unicode/ | IBM, Inc     | ICU           |  |
| ----- ----- -----               |              |               |  |
| js/src/asmjs/                   | Mozilla, Inc | Apache2       |  |
| ----- ----- -----               |              |               |  |
| js/public/                      | Mozilla, Inc | MPL2          |  |
| js/src/                         |              |               |  |
| mfbt                            |              |               |  |
| ----- ----- -----               |              |               |  |
| js/src/vm/Unicode.cpp           | None         | Public Domain |  |
| ----- ----- -----               |              |               |  |
| mfbt/lz4.c                      | Yann Collet  | BSD-2-Clause  |  |
| mfbt/lz4.h                      |              |               |  |
| ----- ----- -----               |              |               |  |

Other optional 3rd party software included in the SpiderMonkey distribution is removed by MongoDB.

Apple, Inc: BSD-2-Clause

-----

Copyright (C) 2008 Apple Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2012 the V8 project authors. All rights reserved.  
Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:

- \* Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above  
copyright notice, this list of conditions and the following  
disclaimer in the documentation and/or other materials provided  
with the distribution.
- \* Neither the name of Google Inc. nor the names of its  
contributors may be used to endorse or promote products derived  
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ICU License - ICU 1.8.1 and later  
-----

#### COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2012 International Business Machines Corporation and  
others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a  
copy of this software and associated documentation files (the "Software"),  
to deal in the Software without restriction, including without limitation  
the rights to use, copy, modify, merge, publish, distribute, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, provided that the above copyright notice(s) and this



permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

Mozilla, Inc: Apache 2

-----

Copyright 2014 Mozilla Foundation

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Mozilla, Inc: MPL 2

-----

Copyright 2014 Mozilla Foundation

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this

file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

#### Public Domain

-----

Any copyright is dedicated to the Public Domain.

<http://creativecommons.org/licenses/publicdomain/>

#### LZ4: BSD-2-Clause

-----

Copyright (C) 2011-2014, Yann Collet.

BSD 2-Clause License (<http://www.opensource.org/licenses/bsd-license.php>)

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

#### 15) License Notice for Intel DFP Math Library

-----

Copyright (c) 2011, Intel Corp.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### 16) License Notice for Unicode Data

-----

Copyright 1991-2015 Unicode, Inc. All rights reserved.

Distributed under the Terms of Use in  
<http://www.unicode.org/copyright.html>.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that

- (a) this copyright and permission notice appear with all copies of the Data Files or Software,
- (b) this copyright and permission notice appear in associated documentation, and
- (c) there is clear notice in each modified Data File or in the Software

as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

17 ) License Notice for Valgrind.h

-----

-----

Notice that the following BSD-style license applies to this one file (valgrind.h) only. The rest of Valgrind is licensed under the terms of the GNU General Public License, version 2, unless otherwise indicated. See the COPYING file in the source distribution for details.

-----

This file is part of Valgrind, a dynamic binary instrumentation framework.

Copyright (C) 2000-2015 Julian Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
Notice that the above BSD-style license applies to this one file (valgrind.h) only. The entire rest of Valgrind is licensed under the terms of the GNU General Public License, version 2. See the COPYING file in the source distribution for details.

-----  
End

GNU AFFERO GENERAL PUBLIC LICENSE  
Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that

Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.



Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this

License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This

alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or

specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that

country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source



from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM

IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.

## 1.591 mongoid 5.1.2

### 1.591.1 Available under license :

Copyright (c) 2009-2016 Durran Jordan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.592 mongoid-autoinc 5.0.2

## 1.593 mongoid\_rails\_migrations 1.0.1

### 1.593.1 Available under license :

Copyright © 2013: Alan Da Costa

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The software is provided 'as is', without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and noninfringement. In no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software.

## 1.594 monit 5.14

### 1.594.1 Available under license :

GNU AFFERO GENERAL PUBLIC LICENSE

Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works

for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section



7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the

Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could

give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the

Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT



HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License  
along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer  
network, you should also make sure that it provides a way for users to  
get its source. For example, if your program is a web application, its  
interface could display a "Source" link that leads users to an archive  
of the code. There are many ways you could offer source, and different  
solutions will be better for different programs; see section 13 for the  
specific requirements.

You should also get your employer (if you work as a programmer) or school,  
if any, to sign a "copyright disclaimer" for the program, if necessary.  
For more information on this, and how to apply and follow the GNU AGPL, see  
<<http://www.gnu.org/licenses/>>.

#### License Exception

In addition, as a special exception, The copyright holders give permission  
to link the code of portions of this program with the OpenSSL library under  
certain conditions as described in each individual source file, and  
distribute linked combinations including the two.

You must obey the GNU General Public License in all respects for all of the  
code used other than OpenSSL.

# This is a sorted list of awesome people who have contributed in some  
# way or the other to the Monit project over the years

Arkadiusz Miskiewicz  
Artyom Khafizov  
Bret "Trixter" McDanel  
Christian Hopp  
Dave Cheney  
David Fletcher  
Francois Isabelle  
Hippo Lin  
Igor Homiyakov  
Jan-Henrik Haukeland  
Joe Bryant  
Kianusch Sayah Karadji

Klaus Heinz  
Lior Okman  
Marco Bisioli  
Margarida Sequeira  
Mark Ferlatte  
Martin Pala  
Michael Amster  
Mostafa Hosseini  
Oliver Jehle  
Olivier Beyssac  
Peter Holdaway  
Philipp Berndt  
Philippe Kueck  
Pierrick Grasland  
Richard Schwaninger  
Rick Robino  
Rory Toma  
Sbastien Debrard  
Tatsuya Nonogaki  
Thomas "Leppo" Oppel  
Thomas Lohmueller  
Will Bryant

GNU AFFERO GENERAL PUBLIC LICENSE  
Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

## 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article

11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display

Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the



Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has

been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered

work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY

GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer



network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.

#### License Exception

In addition, as a special exception, the copyright holders give permission to link the code of portions of this program with the OpenSSL library under certain conditions as described in each individual source file, and distribute linked combinations including the two.

You must obey the GNU General Public License in all respects for all of the code used other than OpenSSL.

## 1.595 mono-logger 1.1.0

### 1.595.1 Available under license :

Copyright (c) 2013 Steve Klabnik

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.596 morgan 1.6.1

## 1.596.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.597 morphia r1.1.0

## 1.597.1 Available under license :

Copyright (c) 2006, Ivan Sagalaev

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of highlight.js nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This work is licensed under a [Creative Commons Attribution NonCommercial ShareAlike 3.0 Unported](<http://creativecommons.org/licenses/by-nc-sa/3.0/>) License.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright (c) Olafur Gauti Gudmundsson

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright 2013 10gen, Inc.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.598 ms 0.7.1

### 1.598.1 Available under license :

(The MIT License)

Copyright (c) 2014 Guillermo Rauch <rauchg@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.599 multi\_json 1.11.3

### 1.599.1 Available under license :

Copyright (c) 2010-2013 Michael Bleigh, Josh Kalderimis, Erik Michaels-Ober, Pavel Pravosud

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.600 multi\_json 1.10.1

### 1.600.1 Available under license :

Copyright (c) 2010-2013 Michael Bleigh, Josh Kalderimis, Erik Michaels-Ober, Pavel Pravosud

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:



The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.601 multipart-post 2.0.0

## 1.602 multipart-post 1.2.0

### 1.602.1 Available under license :

Copyright (c) 2007-2012 Nick Sieger <nick@nicksieger.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.603 multiparty 3.3.2

## 1.603.1 Available under license :

Copyright (C) 2011-2013 Felix Geisendrfer, Andrew Kelley

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.604 multipipe 0.1.2

### 1.604.1 Available under license :

# multipipe

A better `Stream#pipe` that creates duplex streams and lets you handle errors in one place.

[![build status](https://secure.travis-ci.org/segmentio/multipipe.png)](http://travis-ci.org/segmentio/multipipe)

## Example

```
```js
var pipe = require('multipipe');

// pipe streams
var stream = pipe(streamA, streamB, streamC);

// centralized error handling
stream.on('error', fn);

// creates a new stream
source.pipe(stream).pipe(dest);

// optional callback on finish or error
pipe(streamA, streamB, streamC, function(err){
  // ...
});
```
```

## ## Duplex streams

Write to the pipe and you'll really write to the first stream, read from the pipe and you'll read from the last stream.

```
```js
var stream = pipe(a, b, c);

source
  .pipe(stream)
  .pipe(destination);
```
```

In this example the flow of data is:

```
* source ->
* a ->
* b ->
* c ->
* destination
```

## ## Error handling

Each `pipe` forwards the errors the streams it wraps emit, so you have one central place to handle errors:

```
```js
var stream = pipe(a, b, c);

stream.on('error', function(err){
  // called three times
});

a.emit('error', new Error);
b.emit('error', new Error);
c.emit('error', new Error);
```
```

## ## API

```
pipe(stream, ...)
```

Pass a variable number of streams and each will be piped to the next one.

A stream will be returned that wraps passed in streams in a way that errors will be forwarded and you can write to and/or read from it.

Pass a function as last argument to be called on `error` or `finish` of the last stream.

```
Installation
```

```
```bash  
$ npm install multipipe  
```
```

```
License
```

The MIT License (MIT)

Copyright (c) 2014 Segment.io Inc. <friends@segment.io>  
Copyright (c) 2014 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.605 mute-stream 0.0.5

### 1.605.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.606 Nagios 3.5

## 1.606.1 Available under license :

All source code, binaries, documentation, information, and other files contained in this distribution are provided AS IS with NO WARRANTY OF ANY KIND, INCLUDING THE WARRANTY OF DESIGN, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

Nagios and the Nagios logo are trademarks, servicemarks, registered trademarks or registered servicemarks owned by Nagios Enterprises, LLC. All other trademarks, servicemarks, registered trademarks, and registered servicemarks are the property of their respective owner(s).

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's

source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.



However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR

REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## 1.607 nan 2.0.9

### 1.607.1 Available under license :

The MIT License (MIT)

=====

Copyright (c) 2015 NAN contributors

-----

\*NAN contributors listed at <<https://github.com/nodejs/nan#contributors>>\*

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.608 nan 1.0.0

## 1.608.1 Available under license :

Copyright 2013, NAN contributors:

- Rod Vagg <<https://github.com/rvagg>>
- Benjamin Byholm <<https://github.com/kkooopa>>
- Trevor Norris <<https://github.com/trevnorris>>
- Nathan Rajlich <<https://github.com/TooTallNate>>
- Brett Lawson <<https://github.com/brett19>>
- Ben Noordhuis <<https://github.com/bnoordhuis>>

(the "Original Author")

All rights reserved.

MIT +no-false-attrs License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Distributions of all or part of the Software intended to be used by the recipients as they would use the unmodified Software, containing modifications that substantially alter, remove, or disable functionality of the Software, outside of the documented configuration mechanisms provided by the Software, shall be modified such that the Original Author's bug reporting email addresses and urls are either replaced with the contact information of the parties responsible for the changes, or removed entirely.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except where noted, this license applies to any and all software programs and associated documentation files created by the Original Author, when distributed with the Software.

## 1.609 nan 2.0.9

### 1.609.1 Available under license :

The MIT License (MIT)

=====

Copyright (c) 2015 NAN contributors

-----

\*NAN contributors listed at <<https://github.com/nodejs/nan#contributors>>\*

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.610 ncp 0.4.2

### 1.610.1 Available under license :

# MIT License

###Copyright (C) 2011 by Charlie McConnell

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.611 ncurses 5.7

### 1.611.1 Available under license :

```
-- Copyright (c) 1998-2004,2006 Free Software Foundation, Inc. --
-- --
-- Permission is hereby granted, free of charge, to any person obtaining a --
-- copy of this software and associated documentation files (the --
-- "Software"), to deal in the Software without restriction, including --
-- without limitation the rights to use, copy, modify, merge, publish, --
-- distribute, distribute with modifications, sublicense, and/or sell copies --
-- of the Software, and to permit persons to whom the Software is furnished --
-- to do so, subject to the following conditions: --
-- --
-- The above copyright notice and this permission notice shall be included --
-- in all copies or substantial portions of the Software. --
-- --
-- THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS --
-- OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF --
-- MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN --
-- NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, --
-- DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR --
-- OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE --
-- USE OR OTHER DEALINGS IN THE SOFTWARE. --
-- --
-- Except as contained in this notice, the name(s) of the above copyright --
-- holders shall not be used in advertising or otherwise to promote the --
-- sale, use or other dealings in this Software without prior written --
-- authorization.
```

## 1.612 negotiator 0.5.3

### 1.612.1 Available under license :

(The MIT License)

Copyright (c) 2012-2014 Federico Romero  
Copyright (c) 2012-2014 Isaac Z. Schlueter  
Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.613 nested-error-stacks 1.0.2

### 1.613.1 Available under license :

Copyright (c) 2014 Matt Lavin <matt.lavin@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



# 1.614 netaddr 0.7.11

## 1.614.1 Available under license :

Here are the licenses applicable to the use of the netaddr library.

-----  
netaddr  
-----

### COPYRIGHT AND LICENSE

Copyright (c) 2008-2014, David P. D. Moss. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of David P. D. Moss nor the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Here are the copyright notices applicable to the netaddr library.

-----  
netaddr  
-----

Copyright (c) 2008-2014, David P. D. Moss. All rights reserved.

Released under the BSD license. See the LICENSE file for details.

-----  
IANA (Internet Assigned Numbers Authority)  
-----

netaddr is not sponsored nor endorsed by IANA.

Use of data from IANA (Internet Assigned Numbers Authority) is subject to copyright and is provided with prior written permission.

IANA data files included with netaddr are not modified in any way but are parsed and made available to end users through an API.

See README file and source code for URLs to latest copies of the relevant files.

-----  
IEEE (Institution of Electrical Engineers)  
-----

netaddr is not sponsored nor endorsed by the IEEE.

Use of data from the IEEE (Institute of Electrical and Electronics Engineers) is subject to copyright. See the following URL for details :-

<http://www.ieee.org/web/publications/rights/legal.html>

IEEE data files included with netaddr are not modified in any way but are parsed and made available to end users through an API. There is no guarantee that referenced files are not out of date.

See README file and source code for URLs to latest copies of the relevant files.

## 1.615 netrc 0.11.0

### 1.615.1 Available under license :

The MIT License (MIT)

Copyright (c) 2011-2014

[CONTRIBUTORS.md](<https://github.com/geemus/netrc/blob/master/CONTRIBUTORS.md>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to

use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.616 netty 3.2.2.Final

### 1.616.1 Available under license :

The Netty Project - Copyright 2009 Red Hat, Inc, and is licensed under the Apache License version 2.0 as published by the Apache Software Foundation.

A summary of the individual contributors is given below. Any omission should be sent to Trustin Lee <trustin@gmail.com>.

| SVN Login(s)           | Name                 |
|------------------------|----------------------|
| amit.bhayani@jboss.com | Amit Bhayani         |
| ataylor                | Andy Taylor          |
| beve                   | Daniel Bevenius      |
| fredbregier            | Frederic Bregier     |
| trustin                | Trustin Heuseung Lee |

\* JBoss is a registered trademark of Red Hat, Inc.

The Netty Project  
=====

Please visit the Netty web site for more information:

\* <http://www.jboss.org/netty/>

Copyright 2009 Red Hat, Inc.

Red Hat licenses this product to you under the Apache License, version 2.0 (the "License"); you may not use this product except in compliance with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

\* LICENSE:

\* [license/LICENSE.jsr177y.txt](#) (Public Domain)

\* HOMEPAGE:

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.base64.txt](#) (Public Domain)

\* HOMEPAGE:

\* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.jzlib.txt](#) (BSD Style License)

\* HOMEPAGE:

\* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.protobuf.txt](#) (New BSD License)

\* HOMEPAGE:

\* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.slf4j.txt (MIT License)
- \* HOMEPAGE:
  - \* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.commons-logging.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.log4j.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://logging.apache.org/log4j/>

This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.jboss-logging.txt (GNU LGPL 2.1)
- \* HOMEPAGE:
  - \* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.felix.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://felix.apache.org/>

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly



negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of

his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed



with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is

modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library



facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, 5th Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf



of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

Copyright 2008, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

/\*

- \* Copyright (c) 2004-2007 QOS.ch

- \* All rights reserved.

- \*

- \* Permission is hereby granted, free of charge, to any person obtaining

- \* a copy of this software and associated documentation files (the

- \* "Software"), to deal in the Software without restriction, including

- \* without limitation the rights to use, copy, modify, merge, publish,

- \* distribute, sublicense, and/or sell copies of the Software, and to
- \* permit persons to whom the Software is furnished to do so, subject to
- \* the following conditions:
- \*
- \* The above copyright notice and this permission notice shall be
- \* included in all copies or substantial portions of the Software.
- \*
- \* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
- \* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
- \* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
- \* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
- \* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
- \* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
- \* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
- \*/

## 1.617 netty:jar 3.8.0.Final

### 1.617.1 Available under license :

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,  
not price. Our General Public Licenses are designed to make sure that  
you have the freedom to distribute copies of free software (and charge  
for this service if you wish); that you receive source code or can get  
it if you want it; that you can change the software and use pieces of  
it in new free programs; and that you are informed that you can do  
these things.

To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
rights. These restrictions translate to certain responsibilities for  
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis  
or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link other code with the library, you must provide  
complete object files to the recipients, so that they can relink them  
with the library after making changes to the library and recompiling  
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the  
library, and (2) we offer you this license, which gives you legal

permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free

programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked



with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise

permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, 5th Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,



defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes

the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Copyright 2008, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

/\*

- \* Copyright (c) 2004-2007 QOS.ch

- \* All rights reserved.

- \*

- \* Permission is hereby granted, free of charge, to any person obtaining

- \* a copy of this software and associated documentation files (the

- \* "Software"), to deal in the Software without restriction, including

\* without limitation the rights to use, copy, modify, merge, publish,  
\* distribute, sublicense, and/or sell copies of the Software, and to  
\* permit persons to whom the Software is furnished to do so, subject to  
\* the following conditions:

\*

\* The above copyright notice and this permission notice shall be  
\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE  
\* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION  
\* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION  
\* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*/

(BSD License: <http://www.opensource.org/licenses/bsd-license>)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors  
All rights reserved.

Redistribution and use in source and binary forms, with or  
without modification, are permitted provided that the  
following conditions are met:

\* Redistributions of source code must retain the above  
copyright notice, this list of conditions and the  
following disclaimer.

\* Redistributions in binary form must reproduce the above  
copyright notice, this list of conditions and the  
following disclaimer in the documentation and/or other  
materials provided with the distribution.

\* Neither the name of the Webbit nor the names of  
its contributors may be used to endorse or promote products  
derived from this software without specific prior written  
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND  
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,  
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR  
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,  
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

The Netty Project

=====

Please visit the Netty web site for more information:

\* <http://netty.io/>

Copyright 2011 The Netty Project

The Netty Project licenses this file to you under the Apache License,  
version 2.0 (the "License"); you may not use this file except in compliance  
with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT  
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the  
License for the specific language governing permissions and limitations  
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in  
the 'license' directory of the distribution file, for the license terms of the  
components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has  
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

- \* LICENSE:
  - \* [license/LICENSE.jsr166y.txt](#) (Public Domain)
- \* HOMEPAGE:



- \* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>
- \* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

- \* LICENSE:
  - \* [license/LICENSE.base64.txt](#) (Public Domain)
- \* HOMEPAGE:
  - \* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

- \* LICENSE:
  - \* [license/LICENSE.jzlib.txt](#) (BSD Style License)
- \* HOMEPAGE:
  - \* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

- \* LICENSE:
  - \* [license/LICENSE.protobuf.txt](#) (New BSD License)
- \* HOMEPAGE:
  - \* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

- \* LICENSE:
  - \* [license/LICENSE.slf4j.txt](#) (MIT License)
- \* HOMEPAGE:
  - \* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* [license/LICENSE.commons-logging.txt](#) (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* [license/LICENSE.log4j.txt](#) (Apache License 2.0)

- \* HOMEPAGE:
  - \* <http://logging.apache.org/log4j/>

This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* `license/LICENSE.jboss-logging.txt` (GNU LGPL 2.1)
- \* HOMEPAGE:
  - \* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

- \* LICENSE:
  - \* `license/LICENSE.felix.txt` (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://felix.apache.org/>

This product optionally depends on 'Webbit', a Java event based WebSocket and HTTP server:

- \* LICENSE:
  - \* `license/LICENSE.webbit.txt` (BSD License)
- \* HOMEPAGE:
  - \* <https://github.com/joewalnes/webbit>

# 1.618 ng-file-upload 11.0.2

## 1.618.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 danialfarid

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR

COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.619 ng-table 0.3.3

### 1.619.1 Available under license :

Copyright (c) 2013, esvit.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the esvit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.620 ng-table 0.3.2

### 1.620.1 Available under license :

Copyright (c) 2013, esvit.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the esvit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.621 nginx 1.8.0 :21 Apr 2015

### 1.621.1 Available under license :

/\*

\* Copyright (C) 2002-2015 Igor Sysoev

\* Copyright (C) 2011-2015 Nginx, Inc.

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\*

\* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND

\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

\* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE

\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

\* SUCH DAMAGE.

\*/

## 1.622 Nginx 1.6.0

## 1.622.1 Available under license :

/\*

\* Copyright (C) 2002-2014 Igor Sysoev

\* Copyright (C) 2011-2014 Nginx, Inc.

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\*

\* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND

\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

\* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE

\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

\* SUCH DAMAGE.

\*/

## 1.623 ngOnboarding 0.1.7

### 1.623.1 Available under license :

Copyright (c) 2010-2014 Adam Albrecht and other contributors

<http://adamalbrecht.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.624 ngstorage 0.3.10

### 1.624.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Gias Kay Lee

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.625 node-findup-sync 0.3.0

### 1.625.1 Available under license :

Copyright (c) 2013 "Cowboy" Ben Alman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following

conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.626 node-is-arrayish 0.2.1

### 1.626.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 JD Ballard

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.627 node-pre-gyp 0.6.9

### 1.627.1 Available under license :

Copyright (c), Mapbox

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of node-pre-gyp nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.628 node-uuid 1.4.7

### 1.628.1 Available under license :

The MIT License (MIT)

Copyright (c) 2010-2012 Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE



SOFTWARE.

## 1.629 node-uuid 1.4.3

### 1.629.1 Available under license :

The MIT License (MIT)

Copyright (c) 2010-2012 Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.630 NodeJS 0.10.33

### 1.630.1 Available under license :

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2012 Domenic Denicola <domenic@domenicdenicola.com>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2013 Thorsten Lorenz.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2013 TJ Holwaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) Isaac Z. Schlueter

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

Copyright 2009, 2010, 2011 Isaac Z. Schlueter.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011:

Tim Koschitzki (tim@debuggable.com)

Felix Geisendrfer (felix@debuggable.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) Robert Kowalski and Isaac Z. Schlueter ("Authors")

All rights reserved.

## The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) Isaac Z. Schlueter ("Author")

All rights reserved.

## The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,

WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2010-2012 Robert Kieffer

MIT License - <http://opensource.org/licenses/mit-license.php>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright Mathias Bynens <<http://mathiasbynens.be/>>



Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright GoInstant, Inc. and other contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following exceptions apply:

===

`pubSufTest()` of generate-pubsuffix.js is in the public domain.

// Any copyright is dedicated to the Public Domain.

// <http://creativecommons.org/publicdomain/zero/1.0/>

===

`public-suffix.txt` was obtained from  
<[https://mxr.mozilla.org/mozilla-central/source/netwerk/dns/effective\\_tld\\_names.dat?raw=1](https://mxr.mozilla.org/mozilla-central/source/netwerk/dns/effective_tld_names.dat?raw=1)>  
via <<http://publicsuffix.org>>.

That file contains the usual Mozilla triple-license, for which this project uses it  
under the terms of the MPL 1.1:

```
// ***** BEGIN LICENSE BLOCK *****
// Version: MPL 1.1/GPL 2.0/LGPL 2.1
//
// The contents of this file are subject to the Mozilla Public License Version
// 1.1 (the "License"); you may not use this file except in compliance with
// the License. You may obtain a copy of the License at
// http://www.mozilla.org/MPL/
//
// Software distributed under the License is distributed on an "AS IS" basis,
// WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
// for the specific language governing rights and limitations under the
// License.
//
// The Original Code is the Public Suffix List.
//
// The Initial Developer of the Original Code is
// Jo Hermans <jo.hermans@gmail.com>.
// Portions created by the Initial Developer are Copyright (C) 2007
// the Initial Developer. All Rights Reserved.
//
// Contributor(s):
// Ruben Arakelyan <ruben@rubenarakelyan.com>
// Gervase Markham <gerv@gerv.net>
// Pamela Greene <pamg.bugs@gmail.com>
// David Triendl <david@triendl.name>
// Jothan Frakes <jothan@gmail.com>
// The kind representatives of many TLD registries
//
// Alternatively, the contents of this file may be used under the terms of
// either the GNU General Public License Version 2 or later (the "GPL"), or
// the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
// in which case the provisions of the GPL or the LGPL are applicable instead
// of those above. If you wish to allow use of your version of this file only
// under the terms of either the GPL or the LGPL, and not to allow others to
// use your version of this file under the terms of the MPL, indicate your
// decision by deleting the provisions above and replace them with the notice
// and other provisions required by the GPL or the LGPL. If you do not delete
// the provisions above, a recipient may use your version of this file under
// the terms of any one of the MPL, the GPL or the LGPL.
//
// ***** END LICENSE BLOCK *****
```

Copyright (c) 2010-2014 Caolan McMahon

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011 Debuggable Limited <felix@debuggable.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010 Benjamin Thomas, Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 Felix Geisendrfer (felix@debuggable.com) and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2013, Rod Vagg (the "Original Author")  
All rights reserved.

MIT +no-false-attribs License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Distributions of all or part of the Software intended to be used by the recipients as they would use the unmodified Software, containing modifications that substantially alter, remove, or disable functionality of the Software, outside of the documented configuration mechanisms provided by the Software, shall be modified such that the Original Author's bug reporting email addresses and urls are either replaced with the contact information of the parties responsible for the changes, or removed entirely.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except where noted, this license applies to any and all software programs and associated documentation files created by the Original Author, when distributed with the Software.  
Copyright 2012 Michael Hart (michael.hart.au@gmail.com)

This project is free software released under the MIT license:  
<http://www.opensource.org/licenses/mit-license.php>  
The following license applies to all files unless the file is specified below.  
Each file specified below has its license information embedded in it:

tools/jsstyle

Copyright 2011, Robert Mustacchi. All rights reserved.

Copyright 2011, Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011 Mark Cavage, All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

Copyright Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012-2013, Eran Hammer.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Eran Hammer nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ERAN HAMMER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012-2013, Walmart.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Walmart nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL WALMART BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2011-2013, Walmart.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Walmart nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL WALMART BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

Portions of this project were initially based on Postmile, Copyright (c) 2011, Yahoo Inc. Postmile is published at <https://github.com/yahoo/postmile> and its licensing terms are published at <https://github.com/yahoo/postmile/blob/master/LICENSE>.

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong [me@jungleberry.com](mailto:me@jungleberry.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights



to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014 Nathan LaFreniere and other contributors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/qs/graphs/contributors>

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to

use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2011-2014 Paul Vorbach <paul@vorba.ch>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the Software), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

=====

Copyright (C) 2012 by Jun Woong.

This package is a JavaScript porting of `wcwidth()` implementation [by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2013 Tim Oxley

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2013 James Halliday (mail@substack.net)

This project is free software released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2014 Domenic Denicola <domenic@domenicdenicola.com>

This work is free. You can redistribute it and/or modify it under the terms of the Do What The Fuck You Want To Public License, Version 2, as published by Sam Hocevar. See below for more details.

## DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

## DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2012 Nathan Rajlich <nathan@tootallnate.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Forbes Lindesay

#### The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

## THE SOFTWARE.

# Authors, sorted by whether or not they are me

Isaac Z. Schlueter <i@izs.me>

Brian Cottingham <spiffytech@gmail.com>

Carlos Brito Lage <carlos@carloslage.net>

Jesse Dailey <jesse.dailey@gmail.com>

Kevin O'Hara <kevinohara80@gmail.com>

Marco Rogers <marco.rogers@gmail.com>

Mark Cavage <mcavage@gmail.com>

Marko Mikulicic <marko.mikulicic@isti.cnr.it>

Nathan Rajlich <nathan@tootallnate.net>

Satheesh Natesan <snateshan@myspace-inc.com>

Trent Mick <trentm@gmail.com>

ashleybrener <ashley@starlogik.com>

n4kz <n4kz@n4kz.com>

Copyright 2010 James Halliday (mail@substack.net)

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) Robert Kowalski ("Author")

All rights reserved.

## The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 20132014 Domenic Denicola <domenic@domenicdenicola.com>

This work is free. You can redistribute it and/or modify it under the terms of the Do What The Fuck You Want To Public License, Version 2, as published by Sam Hocevar. See below for more details.

#### DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

#### DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

Copyright (c) Robert Kowalski

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the



documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package contains code originally written by Isaac Z. Schlueter.

Used with permission.

Copyright (c) Meryn Stol ("Author")

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The ISC License

Copyright (c) npm, Inc. and Contributors

Permission to use, copy, modify, and/or distribute this software for any

purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) npm, Inc. and Contributors

All rights reserved.

npm is released under the Artistic License 2.0, subject to additional terms that are listed below.

The text of the npm License follows and the text of the additional terms follows the Artistic License 2.0 terms:

-----

The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software Package may be copied, modified, distributed, and/or redistributed. The intent is that the Copyright Holder maintains some artistic control over the development of that Package while still keeping the Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this license directly with the Copyright Holder of a given Package. If the terms of this license do not permit the full use that you propose to make of the Package, you should contact the Copyright Holder and seek a different licensing arrangement.

Definitions

"Copyright Holder" means the individual(s) or organization(s) named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other material to the Package, in accordance with the Copyright Holder's procedures.

"You" and "your" means any person who would like to copy, distribute, or modify the Package.

"Package" means the collection of files distributed by the Copyright Holder, and derivatives of that collection and/or of those files. A given Package may consist of either the Standard Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or translation of the Source form.

#### Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

## Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

## Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard features, executables, or modules, and provided that you do at least ONE of the following:

(a) make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.

(b) ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.

(c) allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under

(i) the Original License or

(ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

## Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

## Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction, provided the result does not expose a direct interface to the Package.

## Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

## General Provisions

(10) Any use, modification, and distribution of the Standard or

Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation (including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty:

THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

The following additional terms shall apply to use of the npm software, the npm website, the npm repository and any other services or products offered by npm, Inc.:

"Node.js" trademark Joyent, Inc. npm is not officially part of the Node.js project, and is neither owned by nor affiliated with Joyent, Inc.

"npm" and "The npm Registry" are owned by npm, Inc. All rights reserved.

Modules published on the npm registry are not officially endorsed by npm, Inc. or the Node.js project.

Data published to the npm registry is not part of npm itself, and is the sole property of the publisher. While every effort is made to ensure accountability, there is absolutely no guarantee, warranty, or assertion expressed or implied as to the quality, fitness for a specific purpose, or lack of malice in any given npm package. Packages downloaded through the npm registry are independently licensed and are not covered by this license.

Additional policies relating to, and restrictions on use of, npm products and services are available on the npm website. All such policies and restrictions, as updated from time to time, are hereby incorporated into this license agreement. By using npm, you acknowledge your agreement to all such policies and restrictions.

If you have a complaint about a package in the public npm registry, and cannot resolve it with the package owner, please email [support@npmjs.com](mailto:support@npmjs.com) and explain the situation. See the [npm Dispute Resolution policy](<https://github.com/npm/policies/blob/master/disputes.md>) for more details.

Any data published to The npm Registry (including user account information) may be removed or modified at the sole discretion of the npm server administrators.

"npm Logo" created by Mathias Pettersson and Brian Hammond, used with permission.

"Gubblebum Blocky" font  
Copyright (c) by Tjarda Koster, <http://jelloween.deviantart.com>  
included for use in the npm website and documentation,  
used with permission.

This program uses several Node modules contained in the `node_modules/` subdirectory, according to the terms of their respective licenses.

Node's license follows:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

This license applies to all parts of Node that are not externally maintained libraries. The externally maintained libraries used by Node are:

- V8, located at `deps/v8`. V8's license follows:

"""

This license applies to all parts of V8 that are not externally maintained libraries. The externally maintained libraries used by V8 are:

- PCRE test suite, located in `test/mjsunit/third_party/regexp-pcre.js`. This is based on the test suite from PCRE-7.3, which is copyrighted by the University of Cambridge and Google, Inc. The copyright notice and license are embedded in `regexp-pcre.js`.
- Layout tests, located in `test/mjsunit/third_party`. These are based on layout tests from `webkit.org` which are copyrighted by Apple Computer, Inc. and released under a 3-clause BSD license.
- Strongtalk assembler, the basis of the files `assembler-arm-inl.h`, `assembler-arm.cc`, `assembler-arm.h`, `assembler-ia32-inl.h`, `assembler-ia32.cc`, `assembler-ia32.h`, `assembler-x64-inl.h`, `assembler-x64.cc`, `assembler-x64.h`, `assembler-mips-inl.h`, `assembler-mips.cc`, `assembler-mips.h`, `assembler.cc` and `assembler.h`. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.
- Valgrind client API header, located at `third_party/valgrind/valgrind.h`. This is release under the BSD license.

These libraries have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Copyright 2006-2012, the V8 project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:



- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""""

- C-Ares, an asynchronous DNS client, located at deps/cares. C-Ares license follows:

""""

```
/* Copyright 1998 by the Massachusetts Institute of Technology.
 *
 * Permission to use, copy, modify, and distribute this
 * software and its documentation for any purpose and without
 * fee is hereby granted, provided that the above copyright
 * notice appear in all copies and that both that copyright
 * notice and this permission notice appear in supporting
 * documentation, and that the name of M.I.T. not be used in
 * advertising or publicity pertaining to distribution of the
 * software without specific, written prior permission.
 * M.I.T. makes no representations about the suitability of
 * this software for any purpose. It is provided "as is"
 * without express or implied warranty.
```

""""

- OpenSSL located at deps/openssl. OpenSSL is cryptographic software written by Eric Young (eay@cryptsoft.com) to provide SSL/TLS encryption. OpenSSL's license follows:

""""

```
/* =====
 * Copyright (c) 1998-2011 The OpenSSL Project. All rights reserved.
 *
```

\* Redistribution and use in source and binary forms, with or without  
 \* modification, are permitted provided that the following conditions  
 \* are met:  
 \*  
 \* 1. Redistributions of source code must retain the above copyright  
 \* notice, this list of conditions and the following disclaimer.  
 \*  
 \* 2. Redistributions in binary form must reproduce the above copyright  
 \* notice, this list of conditions and the following disclaimer in  
 \* the documentation and/or other materials provided with the  
 \* distribution.  
 \*  
 \* 3. All advertising materials mentioning features or use of this  
 \* software must display the following acknowledgment:  
 \* "This product includes software developed by the OpenSSL Project  
 \* for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"  
 \*  
 \* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to  
 \* endorse or promote products derived from this software without  
 \* prior written permission. For written permission, please contact  
 \* [openssl-core@openssl.org](mailto:openssl-core@openssl.org).  
 \*  
 \* 5. Products derived from this software may not be called "OpenSSL"  
 \* nor may "OpenSSL" appear in their names without prior written  
 \* permission of the OpenSSL Project.  
 \*  
 \* 6. Redistributions of any form whatsoever must retain the following  
 \* acknowledgment:  
 \* "This product includes software developed by the OpenSSL Project  
 \* for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"  
 \*  
 \* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY  
 \* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
 \* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
 \* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR  
 \* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
 \* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
 \* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
 \* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
 \* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
 \* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
 \* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED  
 \* OF THE POSSIBILITY OF SUCH DAMAGE.  
 \* =====  
 \*  
 \* This product includes cryptographic software written by Eric Young  
 \* ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)). This product includes software written by Tim  
 \* Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

```
*
*/
"""
```

- HTTP Parser, located at deps/http\_parser. HTTP Parser's license follows:

```
"""
```

```
http_parser.c is based on src/http/nginx_http_parse.c from NGINX copyright
Igor Sysoev.
```

Additional changes are licensed under the same terms as NGINX and  
copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to  
deal in the Software without restriction, including without limitation the  
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or  
sell copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING  
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS  
IN THE SOFTWARE.

```
"""
```

- Closure Linter is located at tools/closure\_linter. Closure's license  
follows:

```
"""
```

```
Copyright (c) 2007, Google Inc.
All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
#
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
"""
```

- tools/cpplint.py is a C++ linter. Its license follows:

```
"""
Copyright (c) 2009 Google Inc. All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
#
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
"""
```

- lib/punycode.js is copyright 2011 Mathias Bynens <<http://mathiasbynens.be/>>

and released under the MIT license.

""

```
* Punycode.js <http://mths.be/punycode>
* Copyright 2011 Mathias Bynens <http://mathiasbynens.be/>
* Available under MIT license <http://mths.be/mit>
```

""

- tools/gyp. GYP is a meta-build system. GYP's license follows:

""

Copyright (c) 2009 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""

- Zlib at deps/zlib. zlib's license follows:

""

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.4, March 14th, 2010
```

Copyright (C) 1995-2010 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly  
Mark Adler

\*/  
""

- npm is a package manager program located at deps/npm.

npm's license follows:

""

Copyright (c) Isaac Z. Schlueter  
All rights reserved.

npm is released under the Artistic 2.0 License.

The text of the License follows:

-----

The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software Package may be copied, modified, distributed, and/or redistributed. The intent is that the Copyright Holder maintains some artistic control over the development of that Package while still keeping the Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this

license directly with the Copyright Holder of a given Package. If the terms of this license do not permit the full use that you propose to make of the Package, you should contact the Copyright Holder and seek a different licensing arrangement.

## Definitions

"Copyright Holder" means the individual(s) or organization(s) named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other material to the Package, in accordance with the Copyright Holder's procedures.

"You" and "your" means any person who would like to copy, distribute, or modify the Package.

"Package" means the collection of files distributed by the Copyright Holder, and derivatives of that collection and/or of those files. A given Package may consist of either the Standard Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or translation of the Source form.

#### Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

#### Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

#### Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard features, executables, or modules, and provided that you do at least ONE of the following:

(a) make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.

(b) ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.

(c) allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under

(i) the Original License or



(ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

#### Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

#### Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction, provided the result does not expose a direct interface to the Package.

#### Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that

merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

#### General Provisions

(10) Any use, modification, and distribution of the Standard or Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation (including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty:

THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

"Node.js" and "node" trademark Joyent, Inc. npm is not officially part of the Node.js project, and is neither owned by nor

officially affiliated with Joyent, Inc.

Packages published in the npm registry (other than the Software and its included dependencies) are not part of npm itself, are the sole property of their respective maintainers, and are not covered by this license.

"npm Logo" created by Mathias Pettersson and Brian Hammond, used with permission.

"Gubblebum Blocky" font

Copyright (c) by Tjarda Koster, <http://jelloween.deviantart.com> included for use in the npm website and documentation, used with permission.

This program uses several Node modules contained in the node\_modules/ subdirectory, according to the terms of their respective licenses.

""

- tools/doc/node\_modules/marked. Marked is a Markdown parser. Marked's license follows:

""

Copyright (c) 2011-2012, Christopher Jeffrey (<https://github.com/chjj/>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

- test/gc/node\_modules/weak. Node-weak is a node.js add-on that provides garbage collector notifications. Node-weak's license follows:

""

Copyright (c) 2011, Ben Noordhuis <[info@bnoordhuis.nl](mailto:info@bnoordhuis.nl)>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

""

- src/nginx-queue.h. nginx-queue.h is taken from the nginx source tree. nginx's license follows:

""

Copyright (C) 2002-2012 Igor Sysoev  
Copyright (C) 2011,2012 Nginx, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""

- wrk is located at tools/wrk. wrk's license follows:

""

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

""

## 1.631 NodeJS 5.7.0

### 1.631.1 Available under license :

Copyright 2013 Thorsten Lorenz.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.



THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015, Rebecca Turner <me@re-becca.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert. Copyright (c) 2009-2015, TJ Holowaychuk.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2011-2015 Paul Vorbach <paul@vorba.ch>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the Software), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015 Elijah Insua

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

=====

Copyright (C) 2012 by Jun Woong.

This package is a JavaScript porting of `wcwidth()` implementation  
[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2013 Tim Oxley

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015, Rebecca Turner

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2012-2016 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2016 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js 1.7.0, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/\*

Copyright (c) 2010, Linden Research, Inc.

Copyright (c) 2012, Joshua Bell

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\$/LicenseInfo\$

\*/

// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorabletash@gmail.com](mailto:inexorabletash@gmail.com)

// <https://github.com/inexorabletash/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

The MIT License

Copyright (c) 2013 Max Ogden

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2009-2014 Contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or

sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2012-2015 The Dojo Foundation <<http://dojofoundation.org/>>

Based on Underscore.js, copyright 2009-2015 Jeremy Ashkenas,

DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013 Forbes Lindesay

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the



documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014, Rebecca Turner <me@re-becca.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

(The MIT License)

Copyright (c) 2012 Nathan Rajlich <nathan@tootallnate.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015, Rebecca Turner

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# Authors, sorted by whether or not they are me

Isaac Z. Schlueter <i@izs.me>

Brian Cottingham <spiffytech@gmail.com>

Carlos Brito Lage <carlos@carloslage.net>

Jesse Dailey <jesse.dailey@gmail.com>

Kevin O'Hara <kevinohara80@gmail.com>

Marco Rogers <marco.rogers@gmail.com>

Mark Cavage <mcavage@gmail.com>

Marko Mikulicic <marko.mikulicic@isti.cnr.it>

Nathan Rajlich <nathan@tootallnate.net>

Satheesh Natesan <snateshan@myspace-inc.com>

Trent Mick <trentm@gmail.com>

ashleybrener <ashley@starlogik.com>

n4kz <n4kz@n4kz.com>

Copyright 2009, 2010, 2011 Isaac Z. Schlueter.  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2013-2015 Mariusz Nowak ([www.medikoo.com](http://www.medikoo.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2011-2015 Mariusz Nowak ([www.medikoo.com](http://www.medikoo.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2013 Mariusz Nowak (www.medikoo.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2014 Guillermo Rauch <rauchg@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS

FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
(The MIT License)

Copyright (c) 2013 Nathan Rajlich <nathan@tootallnate.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The ISC License

Copyright (c) npm, Inc. and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) Isaac Z. Schlueter

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2014 Nathan LaFreniere and other contributors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/qs/graphs/contributors>

The MIT License (MIT)

=====

Copyright (c) 2014 bl contributors

-----

\*bl contributors listed at <<https://github.com/rvagg/bl#contributors>>\*

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."



"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright (c) 2011 Debuggable Limited <felix@debuggable.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date

such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or

any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

The MIT License (MIT)

=====

Copyright (c) 2015 Rod Vagg

-----

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012-2014 Raynos.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) Vsevolod Strukchinsky <floatdrop@gmail.com> (github.com/floatdrop)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015 Zhiye Li

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2011 TJ Holwaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015, Ahmad Nassri <ahmad@ahmadnassri.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2015, Salesforce.com, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Salesforce.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY



THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===

The following exceptions apply:

===

`public\_suffix\_list.dat` was obtained from  
<[https://publicsuffix.org/list/public\\_suffix\\_list.dat](https://publicsuffix.org/list/public_suffix_list.dat)> via  
<<http://publicsuffix.org>>. The license for this file is MPL/2.0. The header of that file reads as follows:

```
// This Source Code Form is subject to the terms of the Mozilla Public
// License, v. 2.0. If a copy of the MPL was not distributed with this
// file, You can obtain one at http://mozilla.org/MPL/2.0/.
Copyright (c) 2012 Felix Geisendrfer (felix@debuggable.com) and contributors
```

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010-2014 Caolan McMahon

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2010-2012 Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 Michael Hart (michael.hart.au@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,

WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Stefan Thomas

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong me@jungleberry.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011 Mark Cavage, All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

Licensing

-----

This software is covered under the following copyright:

/\*

\* Copyright (c) 2003-2005 Tom Wu

\* All Rights Reserved.

\*

\* Permission is hereby granted, free of charge, to any person obtaining

\* a copy of this software and associated documentation files (the

\* "Software"), to deal in the Software without restriction, including

\* without limitation the rights to use, copy, modify, merge, publish,

\* distribute, sublicense, and/or sell copies of the Software, and to

\* permit persons to whom the Software is furnished to do so, subject to

\* the following conditions:

\*

\* The above copyright notice and this permission notice shall be

\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND,

\* EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY

\* WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

\*

\* IN NO EVENT SHALL TOM WU BE LIABLE FOR ANY SPECIAL, INCIDENTAL,

\* INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER

\* RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER OR NOT ADVISED OF

\* THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF LIABILITY, ARISING OUT

\* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

\*

\* In addition, the following condition applies:

\*

\* All redistributions must retain an intact copy of this copyright notice

\* and disclaimer.

\*/

Address all questions regarding this license to:

Tom Wu

tjw@cs.Stanford.EDU

The MIT License (MIT)

Copyright (c) 2012 Ron Garret

Copyright (c) 2007, 2013, 2014 Michele Bini

Copyright (c) 2014 Mega Limited

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all

copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Jeremie Miller

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012, Joyent, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

Copyright (c) 2012-2014, Walmart and other contributors.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/boom/graphs/contributors>

Copyright (c) 2014, Eran Hammer and other contributors.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/cryptiles/graphs/contributors>  
Copyright (c) 2012-2014, Eran Hammer and other contributors.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY



DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/sntp/graphs/contributors>

Copyright (c) 2011-2014, Walmart and other contributors.

Copyright (c) 2011, Yahoo Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY

DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/hapi/graphs/contributors>

Portions of this project were initially based on the Yahoo! Inc. Postmile project,

published at <https://github.com/yahoo/postmile>.

Copyright (c) 2012-2014, Eran Hammer and other contributors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/hawk/graphs/contributors>

Copyright (c) 2011:

Tim Koschitzki (tim@debuggable.com)

Felix Geisendrfer (felix@debuggable.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The ISC License

Copyright (c) Isaac Z. Schlueter, Ben Noordhuis, and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2015, npm, Inc

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This package contains code originally written by Isaac Z. Schlueter.

Used with permission.

Copyright (c) Meryn Stol ("Author")

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(The MIT License)

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015 Sam Mikes

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE

SOFTWARE.

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2013 James Halliday (mail@substack.net)

This project is free software released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Nadav Ivgi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) Isaac Z. Schlueter ("Author")

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS

BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# Copyright (c) 2015 Calvin Metcalf

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

\*\*THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.\*\*

(The MIT License)

Copyright (c) 2014 Nathan Rajlich <nathan@tootallnate.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015, Forrest L Norvell

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH



REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2010 James Halliday (mail@substack.net)

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or distribute this software, either in source code form or as a compiled binary, for any purpose, commercial or non-commercial, and by any means.

In jurisdictions that recognize copyright laws, the author or authors of this software dedicate any and all copyright interest in the software to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org/>  
The MIT License

Copyright (c) 2015 Kyle E. Mitchell and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

SPDX:Apache-2.0

Apache License

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product

names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii)

beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright

license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices

cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in



accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Copyright (c) Robert Kowalski and Isaac Z. Schlueter ("Authors")  
All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The npm application

Copyright (c) npm, Inc. and Contributors

Licensed on the terms of The Artistic License 2.0

Node package dependencies of the npm application

Copyright (c) their respective copyright owners

Licensed on their respective license terms

The npm public registry at <https://registry.npmjs.org>

and the npm website at <https://www.npmjs.com>

Operated by npm, Inc.

Use governed by terms published on <https://www.npmjs.com>

"Node.js"

Trademark Joyent, Inc., <https://joyent.com>

Neither npm nor npm, Inc. are affiliated with Joyent, Inc.

The Node.js application

Project of Node Foundation, <https://nodejs.org>

The npm Logo

Copyright (c) Mathias Pettersson and Brian Hammond

"Gubblebum Blocky" typeface

Copyright (c) Tjarda Koster, <https://jelloween.deviantart.com>

Used with permission

-----

The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software

Package may be copied, modified, distributed, and/or redistributed. The intent is that the Copyright Holder maintains some artistic control over the development of that Package while still keeping the Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this license directly with the Copyright Holder of a given Package. If the terms of this license do not permit the full use that you propose to make of the Package, you should contact the Copyright Holder and seek a different licensing arrangement.

#### Definitions

"Copyright Holder" means the individual(s) or organization(s) named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other material to the Package, in accordance with the Copyright Holder's procedures.

"You" and "your" means any person who would like to copy, distribute, or modify the Package.

"Package" means the collection of files distributed by the Copyright Holder, and derivatives of that collection and/or of those files. A given Package may consist of either the Standard Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or translation of the Source form.

#### Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

#### Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

#### Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard features, executables, or modules, and provided that you do at least ONE of the following:

(a) make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.

(b) ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.

(c) allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under

(i) the Original License or

(ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

#### Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

#### Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction,

provided the result does not expose a direct interface to the Package.

#### Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

#### General Provisions

(10) Any use, modification, and distribution of the Standard or Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation (including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty:

THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

Copyright 2008, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libuv is part of the Node project: <http://nodejs.org/>

libuv may be distributed alone under Node's license:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally maintained libraries.

The externally maintained libraries used by libuv are:

- tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.
- inet\_pton and inet\_ntop implementations, contained in src/inet.c, are copyright the Internet Systems Consortium, Inc., and licensed under the ISC license.
- stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three clause BSD license.
- pthread-fixes.h, pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications AB. Three clause BSD license.
- android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant agreement n 289016). Three clause BSD license.

All files in this directory are provided by the following license if not stated otherwise in the individual file:

=====

This file is provided under a dual BSD/GPLv2 license. When using or redistributing this file, you may do so under either license.

#### GPL LICENSE SUMMARY

Copyright (c) 2005-2012 Intel Corporation. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the terms of version 2 of the GNU General Public License as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License



along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St - Fifth Floor, Boston, MA 02110-1301 USA. The full GNU General Public License is included in this distribution in the file called LICENSE.GPL.

Contact Information:

<http://software.intel.com/en-us/articles/intel-vtune-amplifier-xe/>

BSD LICENSE

Copyright (c) 2005-2012 Intel Corporation. All rights reserved.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

Copyright (C) 1993-2004 by Sun Microsystems, Inc. All rights reserved.

Developed at SunSoft, a Sun Microsystems, Inc. business.

Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

-----

Notice that the following BSD-style license applies to this one

file (valgrind.h) only. The rest of Valgrind is licensed under the terms of the GNU General Public License, version 2, unless otherwise indicated. See the COPYING file in the source distribution for details.

-----  
This file is part of Valgrind, a dynamic binary instrumentation framework.

Copyright (C) 2000-2010 Julian Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
Notice that the above BSD-style license applies to this one file (valgrind.h) only. The entire rest of Valgrind is licensed under the terms of the GNU General Public License, version 2. See the

COPYING file in the source distribution for details.

-----  
-----  
Notice that the following BSD-style license applies to this one file (valgrind.h) only. The rest of Valgrind is licensed under the terms of the GNU General Public License, version 2, unless otherwise indicated. See the COPYING file in the source distribution for details.

-----  
This file is part of Valgrind, a dynamic binary instrumentation framework.

Copyright (C) 2000-2007 Julian Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1994-2006 Sun Microsystems Inc.  
All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Sun Microsystems or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2006-2011, the V8 project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to all parts of V8 that are not externally maintained libraries. The externally maintained libraries used by V8 are:

- PCRE test suite, located in `test/mjsunit/third_party/regexp-pcre/regexp-pcre.js`. This is based on the test suite from PCRE-7.3, which is copyrighted by the University of Cambridge and Google, Inc. The copyright notice and license are embedded in `regexp-pcre.js`.
  
- Layout tests, located in `test/mjsunit/third_party/object-keys`. These are based on layout tests from `webkit.org` which are copyrighted by Apple Computer, Inc. and released under a 3-clause BSD license.
  
- Strongtalk assembler, the basis of the files `assembler-arm-inl.h`, `assembler-arm.cc`, `assembler-arm.h`, `assembler-ia32-inl.h`, `assembler-ia32.cc`, `assembler-ia32.h`, `assembler-x64-inl.h`, `assembler-x64.cc`, `assembler-x64.h`, `assembler-mips-inl.h`, `assembler-mips.cc`, `assembler-mips.h`, `assembler.cc` and `assembler.h`. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.
  
- Valgrind client API header, located at `third_party/valgrind/valgrind.h`. This is release under the BSD license.

These libraries have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Further license information can be found in LICENSE files located in sub-directories.

Copyright 2014, the V8 project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided

with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)

All rights reserved.

This package is an DES implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

If this package is used in a product, Eric Young should be given attribution as the author of that the SSL library. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)

All rights reserved.

This package is an Blowfish implementation written by Eric Young (eay@cryptsoft.com).

This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

## LICENSE ISSUES

=====

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact [openssl-core@openssl.org](mailto:openssl-core@openssl.org).

## OpenSSL License

-----

```
/* =====
```

```
* Copyright (c) 1998-2016 The OpenSSL Project. All rights reserved.
```

```
*
```

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
```

```
*
```

```
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
```

```
*
```

```
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.
```

```
*
```

```
* 3. All advertising materials mentioning features or use of this
* software must display the following acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
```



\*  
 \* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to  
 \* endorse or promote products derived from this software without  
 \* prior written permission. For written permission, please contact  
 \* openssl-core@openssl.org.  
 \*  
 \* 5. Products derived from this software may not be called "OpenSSL"  
 \* nor may "OpenSSL" appear in their names without prior written  
 \* permission of the OpenSSL Project.  
 \*  
 \* 6. Redistributions of any form whatsoever must retain the following  
 \* acknowledgment:  
 \* "This product includes software developed by the OpenSSL Project  
 \* for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"  
 \*  
 \* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY  
 \* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
 \* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
 \* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR  
 \* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
 \* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
 \* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
 \* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
 \* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
 \* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
 \* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED  
 \* OF THE POSSIBILITY OF SUCH DAMAGE.  
 \* =====  
 \*  
 \* This product includes cryptographic software written by Eric Young  
 \* (eay@cryptsoft.com). This product includes software written by Tim  
 \* Hudson (tjh@cryptsoft.com).  
 \*  
 \*/

Original SSLeay License

-----  
 /\* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)  
 \* All rights reserved.  
 \*  
 \* This package is an SSL implementation written  
 \* by Eric Young (eay@cryptsoft.com).  
 \* The implementation was written so as to conform with Netscapes SSL.  
 \*  
 \* This library is free for commercial and non-commercial use as long as  
 \* the following conditions are aheared to. The following conditions  
 \* apply to all code found in this distribution, be it the RC4, RSA,

\* lhash, DES, etc., code; not just the SSL code. The SSL documentation  
 \* included with this distribution is covered by the same copyright terms  
 \* except that the holder is Tim Hudson (tjh@cryptsoft.com).  
 \*

\* Copyright remains Eric Young's, and as such any Copyright notices in  
 \* the code are not to be removed.  
 \* If this package is used in a product, Eric Young should be given attribution  
 \* as the author of the parts of the library used.  
 \* This can be in the form of a textual message at program startup or  
 \* in documentation (online or textual) provided with the package.  
 \*

\* Redistribution and use in source and binary forms, with or without  
 \* modification, are permitted provided that the following conditions  
 \* are met:

- \* 1. Redistributions of source code must retain the copyright  
 \* notice, this list of conditions and the following disclaimer.
- \* 2. Redistributions in binary form must reproduce the above copyright  
 \* notice, this list of conditions and the following disclaimer in the  
 \* documentation and/or other materials provided with the distribution.
- \* 3. All advertising materials mentioning features or use of this software  
 \* must display the following acknowledgement:  
 \* "This product includes cryptographic software written by  
 \* Eric Young (eay@cryptsoft.com)"  
 \* The word 'cryptographic' can be left out if the routines from the library  
 \* being used are not cryptographic related :-).
- \* 4. If you include any Windows specific code (or a derivative thereof) from  
 \* the apps directory (application code) you must include an acknowledgement:  
 \* "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"  
 \*

\* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND  
 \* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
 \* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
 \* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE  
 \* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
 \* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
 \* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
 \* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
 \* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
 \* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
 \* SUCH DAMAGE.  
 \*

\* The licence and distribution terms for any publically available version or  
 \* derivative of this code cannot be changed. i.e. this code cannot simply be  
 \* copied and put under another distribution licence  
 \* [including the GNU Public Licence.]  
 \*/  
 (The MIT License)

Copyright (C) 2011-2015 by Vitaly Puzrin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License, Version 2.0

Copyright (c) 2011 Dominic Tarr

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2012, Artur Adib <aadib@mozilla.com>

All rights reserved.

You may use this project under the terms of the New BSD license as follows:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Artur Adib nor the names of the contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ARTUR ADIB BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a



file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) George Zahariev

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright 2012-2016 The Dojo Foundation <<http://dojofoundation.org/>>  
Based on Underscore.js, copyright 2009-2016 Jeremy Ashkenas,  
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 - 2015 Shinnosuke Watanabe

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Simon Boudrias

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2012-2014 by Ingvar Stepanyan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015 Roy Riojas

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2012-2015 Mariusz Nowak (www.medikoo.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2015 DC <threedeecee@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (C) 2012 by Vitaly Puzrin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright (c) 2007-2015 Steven Levithan <<http://xregexp.com/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) jQuery Foundation, Inc. and Contributors, All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2015, Ilya Radchenko <ilya@burstcreations.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2016, Gajus Kuizinas (<http://gajus.com/>)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the Gajus Kuizinas (<http://gajus.com/>) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ANUARY BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(MIT License)

Copyright (c) 2013 [Ramesh Nair](<http://www.hiddentao.com/>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Ingvar Stepanyan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013-2015 Petka Antonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2007-2014, Alexandru Marasteanu <hello [at] alexei (dot) ro>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of this software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(The MIT License)

Copyright (c) 2014 TJ Holwaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to



permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013 Kael Zhang <i@kael.me>, contributors  
<http://kael.me/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013 Blake Embrey (hello@blakeembrey.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012, 2013 Thorsten Lorenz <thlorenz@gmx.de>

Copyright (c) 2012 James Halliday <mail@substack.net>

Copyright (c) 2009 Thomas Robinson <280north.com>

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright (c) 2013 Max Ogden

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2012-2014 by various contributors (see AUTHORS)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/\*

Author: Geraint Luff and others

Year: 2013

This code is released into the "public domain" by its author(s). Anybody may use, alter and distribute the code without restriction. The author makes no guarantees, and takes no liability of any kind for use of this code.

If you find a bug or make an improvement, it would be courteous to let the author know, but it is not compulsory.

\*/

ESLint

Copyright (c) 2013 Nicholas C. Zakas. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011-2012, Christopher Jeffrey (<https://github.com/chjj/>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011, Ben Noordhuis <[info@bnoordhuis.nl](mailto:info@bnoordhuis.nl)>

Permission to use, copy, modify, and/or distribute this software for any

purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Node.js is licensed for use as follows:

""

Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

This license applies to parts of Node.js originating from the <https://github.com/joyent/node> repository:

""

Copyright Joyent, Inc. and other Node contributors. All rights reserved.  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

The Node.js license applies to all parts of Node.js that are not externally maintained libraries.

The externally maintained libraries used by Node.js are:

- c-ares, located at deps/cares, is licensed as follows:

""

Copyright 1998 by the Massachusetts Institute of Technology.  
Copyright (C) 2007-2013 by Daniel Stenberg

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

""

- HTTP Parser, located at deps/http\_parser, is licensed as follows:

""

http\_parser.c is based on src/http/nginx\_http\_parse.c from NGINX copyright Igor Sysoev.

Additional changes are licensed under the same terms as NGINX and copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

- ICU, located at deps/icu, is licensed as follows:

""

ICU License - ICU 1.8.1 and later

#### COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2015 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

## Third-Party Software Licenses

This section contains third-party software notices and/or additional terms for licensed third-party software components included within ICU libraries.

### 1. Unicode Data Files and Software

#### COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2015 Unicode, Inc. All rights reserved.

Distributed under the Terms of Use in

<http://www.unicode.org/copyright.html>.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that

- (a) this copyright and permission notice appear with all copies of the Data Files or Software,
- (b) this copyright and permission notice appear in associated documentation, and
- (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

### 2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

# The Google Chrome software developed by Google is licensed under the BSD license. Other software included in this distribution is provided under other licenses, as set forth below.



```
#
The BSD License
http://opensource.org/licenses/bsd-license.php
Copyright (C) 2006-2008, Google Inc.
#
All rights reserved.
#
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
following conditions are met:
#
Redistributions of source code must retain the above copyright notice, this list of conditions and the following
disclaimer.
#
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the
following disclaimer in the documentation and/or other materials provided with the distribution.
#
Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.
#
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
The word list in cjdict.txt are generated by combining three word lists listed
below with further processing for compound word breaking. The frequency is generated
with an iterative training against Google web corpora.
#
* Libtabe (Chinese)
- https://sourceforge.net/project/?group_id=1519
- Its license terms and conditions are shown below.
#
* IPADIC (Japanese)
- http://chasen.aist-nara.ac.jp/chasen/distribution.html
- Its license terms and conditions are shown below.
#
-----COPYING.libtabe ---- BEGIN-----
#
/*
* Copyrighy (c) 1999 TaBE Project.
* Copyright (c) 1999 Pai-Hsiang Hsiao.
* All rights reserved.
```

```
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* . Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* . Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.
* . Neither the name of the TaBE Project nor the names of its
* contributors may be used to endorse or promote products derived
* from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
* REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
*/
#
/*
* Copyright (c) 1999 Computer Systems and Communication Lab,
* Institute of Information Science, Academia Sinica.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* . Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* . Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.
* . Neither the name of the Computer Systems and Communication Lab
* nor the names of its contributors may be used to endorse or
* promote products derived from this software without specific
* prior written permission.
```

```

*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
* REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
*/
#
Copyright 1996 Chih-Hao Tsai @ Beckman Institute, University of Illinois
c-tsai4@uiuc.edu http://casper.beckman.uiuc.edu/~c-tsai4
#
-----COPYING.libtabe-----END-----
#
#
-----COPYING.ipadic-----BEGIN-----
#
Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
and Technology. All Rights Reserved.
#
Use, reproduction, and distribution of this software is permitted.
Any copy of this software, whether in its original form or modified,
must include both the above copyright notice and the following
paragraphs.
#
Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortious action, arising out
of or in connection with the use or performance of this software.
#
A large portion of the dictionary entries
originate from ICOT Free Software. The following conditions for ICOT
Free Software applies to the current dictionary as well.
#
Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially

```

# in the same form as set out herein and that such intended  
# distribution, if actually made, will neither violate or otherwise  
# contravene any of the laws and regulations of the countries having  
# jurisdiction over the User or the intended distribution itself.  
#  
# NO WARRANTY  
#  
# The program was produced on an experimental basis in the course of the  
# research and development conducted during the project and is provided  
# to users as so produced on an experimental basis. Accordingly, the  
# program is provided without any warranty whatsoever, whether express,  
# implied, statutory or otherwise. The term "warranty" used herein  
# includes, but is not limited to, any warranty of the quality,  
# performance, merchantability and fitness for a particular purpose of  
# the program and the nonexistence of any infringement or violation of  
# any right of any third party.  
#  
# Each user of the program will agree and understand, and be deemed to  
# have agreed and understood, that there is no warranty whatsoever for  
# the program and, accordingly, the entire risk arising from or  
# otherwise connected with the program is assumed by the user.  
#  
# Therefore, neither ICOT, the copyright holder, or any other  
# organization that participated in or was otherwise related to the  
# development of the program and their respective officials, directors,  
# officers and other employees shall be held liable for any and all  
# damages, including, without limitation, general, special, incidental  
# and consequential damages, arising out of or otherwise in connection  
# with the use or inability to use the program or any product, material  
# or result produced or otherwise obtained by using the program,  
# regardless of whether they have been advised of, or otherwise had  
# knowledge of, the possibility of such damages at any time during the  
# project or thereafter. Each user will be deemed to have agreed to the  
# foregoing by his or her commencement of use of the program. The term  
# "use" as used herein includes, but is not limited to, the use,  
# modification, copying and distribution of the program and the  
# production of secondary products from the program.  
#  
# In the case where the program, whether in its original form or  
# modified, was distributed or delivered to or received by a user from  
# any person, organization or entity other than ICOT, unless it makes or  
# grants independently of ICOT any specific warranty to the user in  
# writing, such person, organization or entity, will also be exempted  
# from and not be held liable to the user for any such damages as noted  
# above as far as the program is concerned.  
#  
# -----COPYING.ipadic-----END-----

### 3. Lao Word Break Dictionary Data (laodict.txt)

```
Copyright (c) 2013 International Business Machines Corporation
and others. All Rights Reserved.
#
Project: http://code.google.com/p/lao-dictionary/
Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
(copied below)
#
This file is derived from the above dictionary, with slight modifications.

Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
All rights reserved.
#
Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:
#
Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer. Redistributions in binary
form must reproduce the above copyright notice, this list of conditions and
the following disclaimer in the documentation and/or other materials
provided with the distribution.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

### 4. Burmese Word Break Dictionary Data (burmesdict.txt)

```
Copyright (c) 2014 International Business Machines Corporation
and others. All Rights Reserved.
#
This list is part of a project hosted at:
github.com/kanyawtech/myanmar-karen-word-lists
#

Copyright (c) 2013, LeRoy Benjamin Sharon
```

```

All rights reserved.
#
Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:
#
Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.
#
Redistributions in binary form must reproduce the above copyright notice, this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.
#
Neither the name Myanmar Karen Word Lists, nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

## 5. Time Zone Database

ICU uses the public domain data and code derived from

Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

## 7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work that is in the public domain, and is intended to remain in the public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply to the TZ Database or contributions that individuals make to it. Should any claims be made and substantiated against the TZ Database, the organization that is providing the IANA Considerations defined in this RFC, under the memorandum of understanding with the IETF, currently ICANN, may act in accordance with all competent court orders. No ownership claims will be made by ICANN or the IETF Trust

on the database or the code. Any person making a contribution to the database or code waives all rights to future claims in that contribution or in the TZ Database.

""

- libuv, located at deps/uv, is licensed as follows:

""

libuv is part of the Node project: <http://nodejs.org/>

libuv may be distributed alone under Node's license:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally maintained libraries.

The externally maintained libraries used by libuv are:

- tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.
- inet\_pton and inet\_ntop implementations, contained in src/inet.c, are copyright the Internet Systems Consortium, Inc., and licensed under the ISC license.
- stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three clause BSD license.
- pthread-fixes.h, pthread-fixes.c, copyright Google Inc. and Sony Mobile

Communications AB. Three clause BSD license.

- android-ifaddr.h, android-ifaddr.c, copyright Berkeley Software Design Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant agreement n 289016). Three clause BSD license.

""

- OpenSSL, located at deps/openssl, is licensed as follows:

""

Copyright (c) 1998-2011 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [openssl-core@openssl.org](mailto:openssl-core@openssl.org).

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT



NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED  
OF THE POSSIBILITY OF SUCH DAMAGE.

=====

This product includes cryptographic software written by Eric Young  
(eay@cryptsoft.com). This product includes software written by Tim  
Hudson (tjh@cryptsoft.com).

""

- Punycode.js, located at lib/punycode.js, is licensed as follows:

""

Copyright Mathias Bynens <<https://mathiasbynens.be/>>

Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Software, and to  
permit persons to whom the Software is furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be  
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE  
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION  
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION  
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

- V8, located at deps/v8, is licensed as follows:

""

This license applies to all parts of V8 that are not externally  
maintained libraries. The externally maintained libraries used by V8  
are:

- PCRE test suite, located in  
test/mjsunit/third\_party/regexp-pcre/regexp-pcre.js. This is based on the  
test suite from PCRE-7.3, which is copyrighted by the University  
of Cambridge and Google, Inc. The copyright notice and license  
are embedded in regexp-pcre.js.

- Layout tests, located in test/mjsunit/third\_party/object-keys. These are based on layout tests from webkit.org which are copyrighted by Apple Computer, Inc. and released under a 3-clause BSD license.

- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.

- Valgrind client API header, located at third\_party/valgrind/valgrind.h. This is release under the BSD license.

These libraries have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Further license information can be found in LICENSE files located in sub-directories.

Copyright 2014, the V8 project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""

- zlib, located at deps/zlib, is licensed as follows:

""

zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

""

- npm, located at deps/npm, is licensed as follows:

""

The npm application  
Copyright (c) npm, Inc. and Contributors  
Licensed on the terms of The Artistic License 2.0

Node package dependencies of the npm application  
Copyright (c) their respective copyright owners  
Licensed on their respective license terms

The npm public registry at <https://registry.npmjs.org>  
and the npm website at <https://www.npmjs.com>  
Operated by npm, Inc.  
Use governed by terms published on <https://www.npmjs.com>

"Node.js"  
Trademark Joyent, Inc., <https://joyent.com>  
Neither npm nor npm, Inc. are affiliated with Joyent, Inc.

The Node.js application  
Project of Node Foundation, <https://nodejs.org>

The npm Logo  
Copyright (c) Mathias Pettersson and Brian Hammond

"Gubblebum Blocky" typeface  
Copyright (c) Tjarda Koster, <https://jelloween.deviantart.com>  
Used with permission

-----

The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software  
Package may be copied, modified, distributed, and/or redistributed.  
The intent is that the Copyright Holder maintains some artistic  
control over the development of that Package while still keeping the  
Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this  
license directly with the Copyright Holder of a given Package. If the  
terms of this license do not permit the full use that you propose to  
make of the Package, you should contact the Copyright Holder and seek  
a different licensing arrangement.

Definitions

"Copyright Holder" means the individual(s) or organization(s)  
named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other  
material to the Package, in accordance with the Copyright Holder's  
procedures.

"You" and "your" means any person who would like to copy,  
distribute, or modify the Package.

"Package" means the collection of files distributed by the  
Copyright Holder, and derivatives of that collection and/or of  
those files. A given Package may consist of either the Standard

Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or translation of the Source form.

#### Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

#### Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

## Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard features, executables, or modules, and provided that you do at least ONE of the following:

(a) make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.

(b) ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.

(c) allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under

(i) the Original License or

(ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

## Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without

the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

#### Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction, provided the result does not expose a direct interface to the Package.

#### Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

#### General Provisions

(10) Any use, modification, and distribution of the Standard or Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation

(including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty:

THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
""

- GYP, located at tools/gyp, is licensed as follows:

""

Copyright (c) 2009 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""



- marked, located at tools/doc/node\_modules/marked, is licensed as follows:

""

Copyright (c) 2011-2012, Christopher Jeffrey (<https://github.com/chjj/>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

- cpplint.py, located at tools/cpplint.py, is licensed as follows:

""

Copyright (c) 2009 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""

- ESLint, located at tools/eslint, is licensed as follows:

""

ESLint

Copyright (c) 2013 Nicholas C. Zakas. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""

- gtest, located at deps/gtest, is licensed as follows:

""

Copyright 2008, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

""

- node-weak, located at test/gc/node\_modules/weak, is licensed as follows:

""

Copyright (c) 2011, Ben Noordhuis <info@bnoordhuis.nl>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

""

Copyright (c) 2009-2012 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

http\_parser.c is based on src/http/nginx\_http\_parse.c from NGINX copyright Igor Sysoev.

Additional changes are licensed under the same terms as NGINX and copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014-2015, Forrest L Norvell

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) Robert Kowalski

All rights reserved.

#### The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.632 nopt 3.0.3

### 1.632.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.633 nopt 1.0.10

## 1.633.1 Available under license :

Copyright 2009, 2010, 2011 Isaac Z. Schlueter.  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.634 npmconf 2.1.1

## 1.634.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")  
All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.635 npmlog 1.2.1

### 1.635.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.636 ntp 4.2.6p5

### 1.636.1 Available under license :

This file is automatically generated from html/copyright.html

Copyright Notice

jpg "Clone me," says Dolly sheepishly.

Last update: 1-Jan-2011 08:34 UTC

---

The following copyright notice applies to all files collectively called the Network Time Protocol Version 4 Distribution. Unless specifically declared otherwise in an individual file, this notice



applies as if the text was explicitly included in the file.

```

*
*
* Copyright (c) University of Delaware 1992-2011
*
*
* Permission to use, copy, modify, and distribute this software and
* its documentation for any purpose with or without fee is hereby
* granted, provided that the above copyright notice appears in all
* copies and that both the copyright notice and this permission
* notice appear in supporting documentation, and that the name
* University of Delaware not be used in advertising or publicity
* pertaining to distribution of the software without specific,
* written prior permission. The University of Delaware makes no
* representations about the suitability this software for any
* purpose. It is provided "as is" without express or implied
* warranty.
*
*

```

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao\_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux

- port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
  19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
  20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
  21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
  22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
  23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
  24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
  25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
  26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
  27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
  28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
  29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
  30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
  31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
  32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
  33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
  34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
  35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
  36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
  37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
  38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
  39. [42]Tom Moore <tmoore@fiavel.daytonoh.ncr.com> i386 svr4 port
  40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
  41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
  43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
  44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  45. [49]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
  46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  49. [53]Michael Shields <shields@tembel.org> USNO clock driver
  50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
- 

## References

1. mailto:%20takao\_abe@xurb.jp
2. mailto:%20mark\_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
15. mailto:casey@csc.co.za
16. mailto:%20Sven\_Dietrich@trimble.COM
17. mailto:%20dundas@salt.jpl.nasa.gov
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de
19. mailto:%20dennis@mrbill.canet.ca
20. mailto:%20jhay@icomtek.csiro.co.za
21. mailto:%20davehart@davehart.com
22. mailto:%20neoclock4x@linum.com
23. mailto:%20glenn@herald.usask.ca
24. mailto:%20iglesias@uci.edu
25. mailto:%20jagubox.gsfc.nasa.gov
26. mailto:%20jbj@chatham.usdesign.com
27. mailto:Hans.Lambermont@nl.origin-it.com

28. <mailto:H.Lambermont@chello.nl>
29. <mailto:%20phk@FreeBSD.ORG>
30. <http://www4.informatik.uni-erlangen.de/%7ekardel>
31. [mailto:%20kardel\(at\)ntp\(dot\)org](mailto:%20kardel(at)ntp(dot)org)
32. <mailto:%20jones@hermes.chpc.utexas.edu>
33. <mailto:%20dkatz@cisco.com>
34. <mailto:%20leres@ee.lbl.gov>
35. <mailto:%20lindholm@ucs.ubc.ca>
36. <mailto:%20louie@ni.umd.edu>
37. <mailto:%20thorinn@diku.dk>
38. <mailto:%20mayer@ntp.org>
39. <mailto:%20mills@udel.edu>
40. <mailto:%20moeller@gwdgv1.dnet.gwdg.de>
41. <mailto:%20mogul@pa.dec.com>
42. <mailto:%20tmoore@fievel.daytonoh.ncr.com>
43. <mailto:%20kamal@whence.com>
44. <mailto:%20derek@toybox.demon.co.uk>
45. <mailto:%20d@hd.org>
46. <mailto:%20neal@ntp.org>
47. <mailto:%20Rainer.Pruy@informatik.uni-erlangen.de>
48. <mailto:%20dirce@zk3.dec.com>
49. <mailto:%20wsanchez@apple.com>
50. <mailto:%20mrapple@quack.kfu.com>
51. <mailto:%20jack@innovativeinternet.com>
52. <mailto:%20schnitz@unipress.com>
53. <mailto:%20shields@tembel.org>
54. <mailto:%20pebbles.jpl.nasa.gov>
55. <mailto:%20harlan@pfcs.com>
56. <mailto:%20ken@sdd.hp.com>
57. <mailto:%20ajit@ee.udel.edu>
58. <mailto:%20tsuruoka@nc.fukuoka-u.ac.jp>
59. <mailto:%20vixie@vix.com>
60. <mailto:%20Ulrich.Windl@rz.uni-regensburg.de>

## GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed

under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a

special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to



refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
```

GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## 1.637 number-is-nan 1.0.0

### 1.637.1 Available under license :

```
number-is-nan [![Build Status](https://travis-ci.org/sindresorhus/number-is-nan.svg?branch=master)](https://travis-ci.org/sindresorhus/number-is-nan)
```

```
> ES6 [Number.isNaN()](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Number/isNaN) ponyfill
```

```
> Ponyfill: A polyfill that doesn't overwrite the native method
```

```
Install
```

```
...
```

```
$ npm install --save number-is-nan
```

```
...
```

```
Usage
```

```
```js
```

```
var numberIsNan = require('number-is-nan');
```

```
numberIsNan(NaN);
```

```
//=> true
```

```
numberIsNan('unicorn');
```

```
//=> false
```

```
```
```

```
License
```

```
MIT © [Sindre Sorhus](http://sindresorhus.com)
```

# 1.638 oauth-sign 0.6.0

## 1.638.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of

fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any

medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.639 oauth-sign 0.3.0

### 1.639.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that

remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the



License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.640 oauth-sign 0.8.0

### 1.640.1 Available under license :

Apache License

Version 2.0, January 2004

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce,

prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work

(and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.641 on-finished 2.3.0

### 1.641.1 Available under license :

(The MIT License)

Copyright (c) 2013 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.642 on-finished 2.3.0

### 1.642.1 Available under license :

(The MIT License)

Copyright (c) 2013 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.643 on-headers 1.0.0

### 1.643.1 Available under license :

(The MIT License)

Copyright (c) 2014 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.644 once 1.3.3

### 1.644.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.645 once 1.3.2

### 1.645.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR

## 1.646 onetime 1.0.0

### 1.646.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.647 onetimepass 1.0.0

### 1.647.1 Available under license :

Copyright (C) 2011-2013 Tomasz Jaskowski (<https://github.com/tadeck>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.648 opener 1.3.0

### 1.648.1 Available under license :

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2012 Domenic Denicola <domenic@domenicdenicola.com>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

## 1.649 OpenJpeg 1.3

### 1.649.1 Available under license :

/\*

\* Copyright (c) 2002-2007, Communications and Remote Sensing Laboratory, Universite catholique de Louvain (UCL), Belgium

\* Copyright (c) 2002-2007, Professor Benoit Macq

\* Copyright (c) 2001-2003, David Janssens

\* Copyright (c) 2002-2003, Yannick Verschuere

\* Copyright (c) 2003-2007, Francois-Olivier Devaux and Antonin Descampe

\* Copyright (c) 2005, Herve Drolon, FreeImage Team

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\*

\* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS IS`

\* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE



\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
\* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE  
\* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
\* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
\* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
\* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
\* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
\* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
\* POSSIBILITY OF SUCH DAMAGE.  
\*/

# 1.650 openldap 2.4.23

## 1.650.1 Available under license :

Copyright 1998-2008 The OpenLDAP Foundation  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted only as authorized by the OpenLDAP  
Public License.

A copy of this license is available in the file LICENSE in the  
top-level directory of the distribution or, alternatively, at  
<<http://www.OpenLDAP.org/license.html>>.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by  
other parties and/or subject to additional restrictions.

This work is derived from the University of Michigan LDAP v3.3  
distribution. Information concerning this software is available  
at <<http://www.umich.edu/~dirsvcs/ldap/ldap.html>>.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at  
<<http://www.openldap.org/>>.

---

Portions Copyright 1998-2008 Kurt D. Zeilenga.  
Portions Copyright 1998-2006 Net Boolean Incorporated.  
Portions Copyright 2001-2006 IBM Corporation.  
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted only as authorized by the OpenLDAP  
Public License.

---

Portions Copyright 1999-2005 Howard Y.H. Chu.  
Portions Copyright 1999-2005 Symas Corporation.  
Portions Copyright 1998-2003 Hallvard B. Furuseth.  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that this notice is preserved.  
The names of the copyright holders may not be used to endorse or  
promote products derived from this software without their specific  
prior written permission. This software is provided ``as is"  
without express or implied warranty.

---

Portions Copyright (c) 1992-1996 Regents of the University of Michigan.  
All rights reserved.

Redistribution and use in source and binary forms are permitted  
provided that this notice is preserved and that due credit is given  
to the University of Michigan at Ann Arbor. The name of the  
University may not be used to endorse or promote products derived  
from this software without specific prior written permission. This  
software is provided ``as is" without express or implied warranty.

A number of files contained in OpenLDAP Software contain  
a statement:

USE, MODIFICATION, AND REDISTRIBUTION OF THIS WORK IS SUBJECT  
TO VERSION 2.0.1 OF THE OPENLDAP PUBLIC LICENSE, A COPY OF  
WHICH IS AVAILABLE AT [HTTP://WWW.OPENLDAP.ORG/LICENSE.HTML](http://www.openldap.org/license.html) OR  
IN THE FILE "LICENSE" IN THE TOP-LEVEL DIRECTORY OF THE  
DISTRIBUTION.

The following is a verbatim copy of version 2.0.1 of the OpenLDAP  
Public License referenced in the above statement.

The OpenLDAP Public License

Version 2.0.1, 21 December 1999  
Copyright 1999, The OpenLDAP Foundation, Redwood City, California, USA.  
All Rights Reserved.

Redistribution and use of this software and associated documentation  
("Software"), with or without modification, are permitted provided

that the following conditions are met:

1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name "OpenLDAP" must not be used to endorse or promote products derived from this Software without prior written permission of the OpenLDAP Foundation. For written permission, please contact [foundation@openldap.org](mailto:foundation@openldap.org).
4. Products derived from this Software may not be called "OpenLDAP" nor may "OpenLDAP" appear in their names without prior written permission of the OpenLDAP Foundation. OpenLDAP is a trademark of the OpenLDAP Foundation.
5. Due credit should be given to the OpenLDAP Project (<http://www.openldap.org/>).

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND CONTRIBUTORS  
``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT  
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND  
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL  
THE OPENLDAP FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,  
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR  
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED  
OF THE POSSIBILITY OF SUCH DAMAGE.

The OpenLDAP Public License  
Version 2.7, 7 September 2001

Redistribution and use of this software and associated documentation  
("Software"), with or without modification, are permitted provided  
that the following conditions are met:

1. Redistributions of source code must retain copyright statements and notices,
2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following

disclaimer in the documentation and/or other materials provided with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time.

Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.

The OpenLDAP Public License

Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source form must retain copyright statements and notices,
2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided

with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.

Copyright 1998-2010 The OpenLDAP Foundation  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted only as authorized by the OpenLDAP Public License. A copy of this license is available at <http://www.OpenLDAP.org/license.html> or in file LICENSE in the top-level directory of the distribution.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by other parties and subject to additional restrictions.



```

* Copyright (C) 2000 Pierangelo Masarati, <ando@sys-net.it>
* All rights reserved.
*
* Permission is granted to anyone to use this software for any purpose
* on any computer system, and to alter it and redistribute it, subject
* to the following restrictions:
*
* 1. The author is not responsible for the consequences of use of this
* software, no matter how awful, even if they arise from flaws in it.
*
* 2. The origin of this software must not be misrepresented, either by
* explicit claim or by omission. Since few users ever read sources,
* credits should appear in the documentation.
*
* 3. Altered versions must be plainly marked as such, and must not be
* misrepresented as being the original software. Since few users
* ever read sources, credits should appear in the documentation.
*
* 4. This notice may not be removed or altered.
*
*****/

```

# 1.651 openssh 5.3p1

## 1.651.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as follows. First, we will summarize and say that all components are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```

* Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
* All rights reserved
*
* As far as I am concerned, the code I have written for this software
* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is
* incompatible with the protocol description in the RFC file, it must be
* called by a name other than "ssh" or "Secure Shell".

```

[Tatu continues]

```

* However, I am not implying to give any licenses to any patents or
* copyrights held by third parties, and the software includes parts that
* are not under my direct control. As far as I know, all included

```

- \* source code is used in accordance with the relevant license agreements
- \* and can be used freely for any purpose (the GNU license being the most restrictive); see below for details.

[However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "<http://www.cs.hut.fi/crypto>".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

#### NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,



INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

2)

The 32-bit CRC compensation attack detector in deattack.c was contributed by CORE SDI S.A. under a BSD-style license.

```
* Cryptographic attack detector for ssh - source code
*
* Copyright (c) 1998 CORE SDI S.A., Buenos Aires, Argentina.
*
* All rights reserved. Redistribution and use in source and binary
* forms, with or without modification, are permitted provided that
* this copyright notice is retained.
*
* THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
* WARRANTIES ARE DISCLAIMED. IN NO EVENT SHALL CORE SDI S.A. BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR
* CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR MISUSE OF THIS
* SOFTWARE.
*
* Ariel Futoransky <futo@core-sdi.com>
* <http://www.core-sdi.com>
```

3)

ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
* Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
*
* Modification and redistribution in source and binary forms is
* permitted provided that due credit is given to the author and the
* OpenBSD project by leaving this copyright notice intact.
```

4)

The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
```

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

\* @author Paulo Barreto <paulo.barreto@terra.com.br>

\*

\* This code is hereby placed in the public domain.

\*

\* THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS  
\* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
\* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
\* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE  
\* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
\* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
\* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR  
\* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,  
\* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE  
\* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,  
\* EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

5)

One component of the ssh source code is under a 3-clause BSD license,  
held by the University of California, since we pulled these parts from  
original Berkeley code.

\* Copyright (c) 1983, 1990, 1992, 1993, 1995

\* The Regents of the University of California. All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without  
\* modification, are permitted provided that the following conditions  
\* are met:

\* 1. Redistributions of source code must retain the above copyright  
\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright  
\* notice, this list of conditions and the following disclaimer in the  
\* documentation and/or other materials provided with the distribution.

\* 3. Neither the name of the University nor the names of its contributors  
\* may be used to endorse or promote products derived from this software  
\* without specific prior written permission.

\*

\* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND  
\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
\* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE  
\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
\* SUCH DAMAGE.

6)

Remaining components of the software are provided under a standard 2-term BSD licence with the following names as copyright holders:

Markus Friedl  
Theo de Raadt  
Niels Provos  
Dug Song  
Aaron Campbell  
Damien Miller  
Kevin Steves  
Daniel Kouril  
Wesley Griffin  
Per Allansson  
Nils Nordman  
Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom  
Tim Rice  
Andre Lucas  
Chris Adams  
Corinna Vinschen  
Cray Inc.  
Denis Parker  
Gert Doering  
Jakob Schlyter  
Jason Downs  
Juha Yrjälä  
Michael Stone  
Networks Associates Technology, Inc.  
Solar Designer  
Todd C. Miller  
Wayne Schroeder  
William Jones  
Darren Tucker  
Sun Microsystems  
The SCO Group  
Daniel Walsh

- \* Redistribution and use in source and binary forms, with or without
- \* modification, are permitted provided that the following conditions
- \* are met:
- \* 1. Redistributions of source code must retain the above copyright
- \* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright  
\* notice, this list of conditions and the following disclaimer in the  
\* documentation and/or other materials provided with the distribution.  
\*

\* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR  
\* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES  
\* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  
\* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,  
\* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
\* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
\* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
\* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
\* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF  
\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

\* "THE BEER-WARE LICENSE" (Revision 42):  
\* <phk@login.dknet.dk> wrote this file. As long as you retain this  
\* notice you can do whatever you want with this stuff. If we meet  
\* some day, and you think this stuff is worth it, you can buy me a  
\* beer in return. Poul-Henning Kamp

b) snprintf replacement

\* Copyright Patrick Powell 1995  
\* This code is based on code written by Patrick Powell  
\* (papowell@astart.com) It may be used for any purpose as long as this  
\* notice remains intact on all source code distributions

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code  
in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following  
copyright holders:

Todd C. Miller  
Theo de Raadt  
Damien Miller  
Eric P. Allman  
The Regents of the University of California  
Constantin S. Svintsoff

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\* 3. Neither the name of the University nor the names of its contributors

\* may be used to endorse or promote products derived from this software

\* without specific prior written permission.

\*

\* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND

\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

\* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

\* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following  
copyright holders:

Internet Software Consortium.

Todd C. Miller

Reyk Floeter

Chad Mynhier

\* Permission to use, copy, modify, and distribute this software for any

\* purpose with or without fee is hereby granted, provided that the above

\* copyright notice and this permission notice appear in all copies.

\*

\* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL

\* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES

\* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE

\* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

\* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION

\* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN

\* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following  
copyright holders:

Free Software Foundation, Inc.

```

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions: *
*
*
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software. *
*
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE. *
*
*
* Except as contained in this notice, the name(s) of the above copyright *
* holders shall not be used in advertising or otherwise to promote the *
* sale, use or other dealings in this Software without prior written *
* authorization. *
*****/

```

-----

\$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp \$

# 1.652 opentsdb 2.1.0 :1

## 1.652.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be

consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The



former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a

fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or

distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:



Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```

 _ _ _ _ _
 / _ \ _ _ _ _ _ / _ \| _ \| _ \|
 | | | | _ \| _ \| _ \| _ \| | | | | _ \|
 | | | | | | | | | | | | | | | | | | | |
 \| / \| _ \| | | | | | | | | | | | | |
 |_| The modern time series database.
```

OpenTSDB is a distributed, scalable Time Series Database (TSDB) written on top of HBase. OpenTSDB was written to address a common need: store, index and serve metrics collected from computer systems (network gear, operating systems, applications) at a large scale, and make this data easily accessible and graphable.

Thanks to HBase's scalability, OpenTSDB allows you to collect thousands of metrics from tens of thousands of hosts and applications, at a high rate (every few seconds). OpenTSDB will never delete or downsample data and can easily store hundreds of billions of data points.

OpenTSDB is free software and is available under both LGPLv2.1+ and GPLv3+. Find more about OpenTSDB at <http://opentsdb.net>

# 1.653 optimist 0.6.1

## 1.653.1 Available under license :

Copyright 2010 James Halliday (mail@substack.net)

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.654 optimist 0.3.7

### 1.654.1 Available under license :

Copyright 2010 James Halliday (mail@substack.net)

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.655 options 0.0.6

### 1.655.1 Available under license :

```
options.js
```

A very light-weight in-code option parsers for node.js.

```
Usage
```

```
``` js
```

```
var Options = require("options");
```

```
// Create an Options object
```

```
function foo(options) {
```

```
  var default_options = {
```

```

    foo : "bar"
  };

  // Create an option object with default value
  var opts = new Options(default_options);

  // Merge options
  opts = opts.merge(options);

  // Reset to default value
  opts.reset();

  // Copy selected attributes out
  var seled_att = opts.copy("foo");

  // Read json options from a file.
  opts.read("options.file"); // Sync
  opts.read("options.file", function(err){ // Async
    if(err){ // If error occurs
      console.log("File error.");
    }else{
      // No error
    }
  });

  // Attributes defined or not
  opts.isDefinedAndNonNull("foobar");
  opts.isDefined("foobar");
}

...

```

License

(The MIT License)

Copyright (c) 2012 Einar Otto Stangvik <einaros@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.656 options 0.0.6

1.657 orchestrator 0.3.7

1.657.1 Available under license :

Copyright (c) 2013 [Richardson & Sons, LLC](<http://richardsonandsons.com/>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.658 ordered-read-streams 0.1.0

1.658.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Artem Medeusheyev

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.659 origin 2.2.0

1.659.1 Available under license :

Copyright (c) 2011-2013 Durran Jordan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.660 orm_adapter 0.5.0

1.661 oro 2.0.8

1.661.1 Notifications :

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

1.661.2 Available under license :

/* =====

* The Apache Software License, Version 1.1

*

* Copyright (c) 2000-2002 The Apache Software Foundation. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

*

* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

*

* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

*

* 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

* "This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>)."

* Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

*

* 4. The names "Apache" and "Apache Software Foundation", "Jakarta-Oro" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

*

* 5. Products derived from this software may not be called "Apache"

* or "Jakarta-Oro", nor may "Apache" or "Jakarta-Oro" appear in their

* name, without prior written permission of the Apache Software Foundation.

*

* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

* =====

*
*

* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation. For more
* information on the Apache Software Foundation, please see
* <<http://www.apache.org/>>.

*/

\$Id: CONTRIBUTORS,v 1.7 2002/06/27 22:43:39 dfs Exp \$

Daniel Savarese <[dfs at savarese.org](mailto:dfs@savarese.org)> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
the Jakarta-ORO project.

Jon Stevens <[jon at collab.net](mailto:jon@collab.net)> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <[tokamoto at rd.nttdata.co.jp](mailto:tokamoto@rd.nttdata.co.jp)> has contributed a unicode
character class fix and an initial posix character class implementation.

Mark Murphy <[markm at tyrell.com](mailto:markm@tyrell.com)> has contributed performance
improvements to Perl5Substitution as well as adding support for
\uUuLIE and escaping of \$.

Michael Davey <[michael.davey at codera.org](mailto:michael.davey@codera.org)> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald at ontopia.net](mailto:harald@ontopia.net)> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

1.662 os-homedir 1.0.1

1.662.1 Available under license :

os-homedir [![Build Status](<https://travis-ci.org/sindresorhus/os-homedir.svg?branch=master>)](<https://travis-ci.org/sindresorhus/os-homedir>)

> io.js 2.3.0 [`os.homedir()`](https://iojs.org/api/os.html#os_os_homedir) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

```
## Install
```

```
...
```

```
$ npm install --save os-homedir
```

```
...
```

```
## Usage
```

```
```js
```

```
var osHomedir = require('os-homedir');
```

```
console.log(osHomedir());
```

```
//=> /Users/sindresorhus
```

```
```
```

```
## Related
```

- [user-home](<https://github.com/sindresorhus/user-home>) - Same as this module but caches the result

- [home-or-tmp](<https://github.com/sindresorhus/home-or-tmp>) - Get the user home directory with fallback to the system temp directory

```
## License
```

MIT Â© [Sindre Sorhus](<http://sindresorhus.com>)

1.663 os-name v1.0.3

1.663.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.664 os-tmpdir 1.0.1

1.664.1 Available under license :

os-tmpdir [![Build Status](https://travis-ci.org/sindresorhus/os-tmpdir.svg?branch=master)](https://travis-ci.org/sindresorhus/os-tmpdir)

> Node.js [os.tmpdir()](https://nodejs.org/api/os.html#os_os_tmpdir) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

Use this instead of `require('os').tmpdir()` to get a consistent behaviour on different Node.js versions (even 0.8).

This is actually taken from io.js 2.0.2 as it contains some fixes that haven't bubbled up to Node.js yet.

Install

```
$ npm install --save os-tmpdir
```

Usage

```
```js
```

```
var osTmpdir = require('os-tmpdir');
```

```
osTmpdir();
```

```
//=> /var/folders/m3/5574nnhn0yj488ccryqr7tc80000gn/T
```

```
```
```

API

See the [os.tmpdir() docs](https://nodejs.org/api/os.html#os_os_tmpdir).

License

MIT Â© [Sindre Sorhus](http://sindresorhus.com)

1.665 osenv 0.1.3

1.665.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.666 osenv 0.1.3

1.666.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.667 osgi-resource-locator 1.0.1

1.667.1 Available under license :

```
/*
 * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
 *
 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
 *
 * The contents of this file are subject to the terms of either the GNU
 * General Public License Version 2 only ("GPL") or the Common Development
 * and Distribution License("CDDL") (collectively, the "License"). You
 * may not use this file except in compliance with the License. You can obtain
 * a copy of the License at https://glassfish.dev.java.net/public/CDDL+GPL.html
 * or glassfish/bootstrap/legal/LICENSE.txt. See the License for the specific
 * language governing permissions and limitations under the License.
 *
 * When distributing the software, include this License Header Notice in each
 * file and include the License file at glassfish/bootstrap/legal/LICENSE.txt.
 * Sun designates this particular file as subject to the "Classpath" exception
 * as provided by Sun in the GPL Version 2 section of the License file that
 * accompanied this code. If applicable, add the following below the License
 * Header, with the fields enclosed by brackets [] replaced by your own
 * identifying information: "Portions Copyrighted [year]
 * [name of copyright owner]"
 *
 * Contributor(s):
 *
 * If you wish your version of this file to be governed by only the CDDL or
 * only the GPL Version 2, indicate your decision by adding "[Contributor]
 * elects to include this software in this distribution under the [CDDL or GPL
 * Version 2] license." If you don't indicate a single choice of license, a
 * recipient has the option to distribute your version of this file under
 * either the CDDL, the GPL Version 2 or to extend the choice of license to
 * its licensees as provided above. However, if you add GPL Version 2 code
 * and therefore, elected the GPL Version 2 license, then the option applies
 * only if the new code is made subject to such option by the copyright
 * holder
 *
 * COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
```

1. Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable means the Covered Software in any form other than Source Code.

1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License means this document.

1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. § 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION

LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You

are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM

"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program ``Gnomovision'` (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

1.668 osgi.resource.locator 1.0.1

1.668.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

- 1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. Executable means the Covered Software in any form other than Source Code.
- 1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.
- 1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. License means this document.
- 1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.
- 1.9. Modifications means the Source Code and Executable form of any of the following:
- A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;
 - B. Any new file that contains any part of the Original Software or previous Modification; or
 - C. Any new file that is contributed or otherwise made available under the terms of this License.
- 1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.
- 1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.
- 1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.
- 1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and
- (b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).
- (c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.
- (d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and
- (b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either

alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of

this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation

of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. § 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising,

directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to

know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License,

and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions.

You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE

STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.669 p-throttler 0.1.1

1.669.1 Available under license :

Copyright (c) 2012 IndigoUnited

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.670 package-json 1.2.0

1.670.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.671 paradise 2.0.1_2.10.3

1.671.1 Available under license :

Copyright (c) 2013-2015 EPFL

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation

and/or other materials provided with the distribution.

* Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.672 parquet-protobuf 1.6.0rc4

1.672.1 Available under license :

Copyright 2012 Twitter, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Parquet Tools

Copyright 2013 ARRIS, Inc.

Parquet MR

Copyright 2012 Twitter, Inc.

Third Party Dependencies:

Pig 11.0

Apache Public License 2.0

<http://pig.apache.org>

Hadoop 0.20.2+

Apache Public License 2.0

<http://hadoop.apache.org>

This project includes code from <https://github.com/lemire/JavaFastPFOR>
parquet-column/src/main/java/parquet/column/values/bitpacking/LemireBitPacking.java
Apache License Version 2.0 <http://www.apache.org/licenses/>.
(c) Daniel Lemire, <http://lemire.me/en/>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.673 parse-glob 3.0.4

1.673.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.674 parse-json 2.2.0

1.674.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.675 parseurl 1.3.0

1.675.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.676 path-exists 2.1.0

1.676.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.677 path-is-absolute 1.0.0

1.677.1 Available under license :

```
# path-is-absolute [![Build Status](https://travis-ci.org/sindresorhus/path-is-absolute.svg?branch=master)](https://travis-ci.org/sindresorhus/path-is-absolute)
```

```
> Node.js 0.12 [ `path.isAbsolute()` ](http://nodejs.org/api/path.html#path_path_isabsolute_path) ponyfill
```

```
> Ponyfill: A polyfill that doesn't overwrite the native method
```

```
## Install
```

```
---
```

```
$ npm install --save path-is-absolute
```

```
---
```

```
## Usage
```

```
```js
```

```
var pathIsAbsolute = require('path-is-absolute');
```

```
// Linux
```

```
pathIsAbsolute('/home/foo');
```

```
//=> true
```

```
// Windows
```

```
pathIsAbsolute('C:/Users/');
```

```
//=> true
```

```
// Any OS
```

```
pathIsAbsolute.posix('/home/foo');
```

```
//=> true
```

```

```

```
API
```

```
See the [`path.isAbsolute()` docs](http://nodejs.org/api/path.html#path_path_isabsolute_path).
```

```
pathIsAbsolute(path)
```

```
pathIsAbsolute.posix(path)
```

The Posix specific version.

```
pathIsAbsolute.win32(path)
```

The Windows specific version.

```
License
```

```
MIT © [Sindre Sorhus](http://sindresorhus.com)
```

# 1.678 path-is-absolute 1.0.0

## 1.678.1 Available under license :

```
path-is-absolute [![Build Status](https://travis-ci.org/sindresorhus/path-is-absolute.svg?branch=master)](https://travis-ci.org/sindresorhus/path-is-absolute)
```

```
> Node.js 0.12 [`path.isAbsolute()`](http://nodejs.org/api/path.html#path_path_isabsolute_path) ponyfill
```

```
> Ponyfill: A polyfill that doesn't overwrite the native method
```

```
Install
```

```

```

```
$ npm install --save path-is-absolute
```

```

```

```
Usage
```

```
```js
```

```
var pathIsAbsolute = require('path-is-absolute');
```

```
// Linux
```

```
pathIsAbsolute('/home/foo');
```

```
//=> true
```

```
// Windows
```

```
pathIsAbsolute('C:/Users/');
```

```
//=> true
```

```
// Any OS
```

```
pathIsAbsolute.posix('/home/foo');
```

```
//=> true
...

```

```
## API

```

See the [`path.isAbsolute()` docs](http://nodejs.org/api/path.html#path_path_isabsolute_path).

```
### pathIsAbsolute(path)

```

```
### pathIsAbsolute.posix(path)

```

The Posix specific version.

```
### pathIsAbsolute.win32(path)

```

The Windows specific version.

```
## License

```

MIT © [Sindre Sorhus](<http://sindresorhus.com>)

1.679 path-type 1.1.0

1.679.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.680 pcre 7.8

1.680.1 Available under license :

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 7 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

Copyright (c) 1997-2008 University of Cambridge
All rights reserved.

THE C++ WRAPPER FUNCTIONS

Contributed by: Google Inc.

Copyright (c) 2007-2008, Google Inc.
All rights reserved.

THE "BSD" LICENCE

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

End

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.681 pdf-core 0.6.1

1.681.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but

which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid

circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the

Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for

the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some

trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are

specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General

Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see <<http://www.gnu.org/licenses/>>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

PDF::Core is copyrighted free software produced by Gregory Brown along with community contributions. See git log for authorship information.

Licensing terms follow:

You can redistribute PDF::Core and/or modify it under either the terms of the GPLv2 or GPLv3 (see GPLv2 and GPLv3 files), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
 - b) use the modified software only within your corporation or organization.
 - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided.
 - d) make other distribution arrangements with the author.
3. You may distribute the software in object code or executable form, provided that you do at least ONE of the following:
 - a) distribute the executables and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
 - b) accompany the distribution with the machine-readable source of the software.

- c) give non-standard executables non-standard names, with instructions on where to get the original software distribution.
 - d) make other distribution arrangements with the author.
4. You may modify and include the part of the software into any other software (possibly commercial).
 5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.
 6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- PDF::Core may be used under Matz's original licensing terms for Ruby, or GPLv2 or GPLv3. See LICENSE for Matz's terms, or GPLv2 and GPLv3 files.

1.682 Perl Class Singleton 1.4

1.682.1 Available under license :

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
 - b) use the modified Package only within your corporation or organization.
 - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
 - d) make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
 - a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where

to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.683 perl Time HiRes 1.9712-1

1.683.1 Available under license :

Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002 Douglas E. Wegscheid.

Copyright (c) 2002, 2003, 2004, 2005 Jarkko Hietaniemi. All rights reserved.

All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved,

and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
 - b) use the modified Package only within your corporation or organization.
 - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
 - d) make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
 - a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.
 - b) accompany the distribution with the machine-readable source of the Package with your modifications.
 - c) give non-standard executables non-standard names, and clearly

document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.684 perl-Crypt-SSLeay 0.57 :16.4.amzn1

1.684.1 Available under license :

COPYRIGHT

Copyright (c) 2006-2007 David Landgren.

Copyright (c) 1999-2003 Joshua Chamas.

Copyright (c) 1998 Gisle Aas.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item

itself, though there may be fees involved in handling the item.

It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
 - b) use the modified Package only within your corporation or organization.
 - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
 - d) make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
 - a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.
 - b) accompany the distribution with the machine-readable source of the Package with your modifications.
 - c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.
 - d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

GNU GENERAL PUBLIC LICENSE

Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program 'Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

1.685 pify 2.3.0

1.685.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.686 pinkie 2.0.1

1.686.1 Available under license :

The MIT License (MIT)

Copyright (c) Vsevolod Strukchinsky <floatdrop@gmail.com> (github.com/floatdrop)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.687 pinkie 1.0.0

1.687.1 Available under license :

The MIT License (MIT)

Copyright (c) Vsevolod Strukchinsky <floatdrop@gmail.com> (github.com/floatdrop)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.688 pinkie-promise 2.0.0

1.688.1 Available under license :

```
# pinkie-promise [![Build Status](https://travis-ci.org/floatdrop/pinkie-promise.svg?branch=master)](https://travis-ci.org/floatdrop/pinkie-promise)
```

```
> [ES2015 Promise](https://people.mozilla.org/~jorendorff/es6-draft.html#sec-promise-objects) ponyfill
```

Module exports global Promise object (if available) or `[`pinkie`](http://github.com/floatdrop/pinkie)` Promise polyfill.

```
## Install
```

```
...
```

```
$ npm install --save pinkie-promise
```

```
...
```

```
## Usage
```

```
```js
```

```
var Promise = require('pinkie-promise');
```

```
new Promise(function (resolve) { resolve('unicorns'); });
```

```
//=> Promise { 'unicorns' }
```

```
...
```

```
Related
```

```
- [pify](https://github.com/sindresorhus/pify) - Promisify a callback-style function
```

```
License
```

```
MIT © [Vsevolod Strukchinsky](http://github.com/floatdrop)
```

# 1.689 pixman 0.32.4 :r0

## 1.689.1 Available under license :

The following is the MIT license, agreed upon by most contributors.

Copyright holders of new code should use this license statement where possible. They may also add themselves to the list below.

```
/*
```

```
* Copyright 1987, 1988, 1989, 1998 The Open Group
```

```
* Copyright 1987, 1988, 1989 Digital Equipment Corporation
```

```
* Copyright 1999, 2004, 2008 Keith Packard
```

```
* Copyright 2000 SuSE, Inc.
```

```
* Copyright 2000 Keith Packard, member of The XFree86 Project, Inc.
```

```
* Copyright 2004, 2005, 2007, 2008, 2009, 2010 Red Hat, Inc.
```

```
* Copyright 2004 Nicholas Miell
```

```
* Copyright 2005 Lars Knoll & Zack Rusin, Trolltech
```

```
* Copyright 2005 Trolltech AS
```

```
* Copyright 2007 Luca Barbato
```

```
* Copyright 2008 Aaron Plattner, NVIDIA Corporation
```

```
* Copyright 2008 Rodrigo Kumpera
```

```
* Copyright 2008 André Tupinambá
```

```
* Copyright 2008 Mozilla Corporation
```

```
* Copyright 2008 Frederic Plourde
```

```
* Copyright 2009, Oracle and/or its affiliates. All rights reserved.
```

\* Copyright 2009, 2010 Nokia Corporation

\*

\* Permission is hereby granted, free of charge, to any person obtaining a  
\* copy of this software and associated documentation files (the "Software"),  
\* to deal in the Software without restriction, including without limitation  
\* the rights to use, copy, modify, merge, publish, distribute, sublicense,  
\* and/or sell copies of the Software, and to permit persons to whom the  
\* Software is furnished to do so, subject to the following conditions:

\*

\* The above copyright notice and this permission notice (including the next  
\* paragraph) shall be included in all copies or substantial portions of the  
\* Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
\* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
\* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL  
\* THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
\* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING  
\* FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER  
\* DEALINGS IN THE SOFTWARE.

\*/

## 1.690 pkginfo 0.3.0

### 1.690.1 Available under license :

Copyright (c) 2010 Charlie Robbins.

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
THE SOFTWARE.

# 1.691 pkginfo 0.2.3

## 1.691.1 Available under license :

NO LICENSE INFORMATION AVAILABLE. Possible Contact (in addition to <https://www.npmjs.com>):

```
"author": "Charlie Robbins <charlie.robbins@gmail.com>",
"url": "http://github.com/indexzero/node-pkginfo.git"
```

# 1.692 pkgr 1.4.4

## 1.692.1 Available under license :

Copyright (c) 2012 Cyril Rohr

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.693 policyfile 0.0.4

## 1.693.1 Available under license :

Copyright (c) 2011 Arnout Kazemier,3rd-Eden

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.694 polyglot 0.3.5

## 1.695 portfinder 0.2.1

### 1.695.1 Available under license :

node-portfinder

Copyright (c) 2012 Charlie Robbins

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.696 prawn 2.1.0

## 1.696.1 Available under license :

### GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for  
software and other kinds of works.

The licenses for most software and other practical works are designed  
to take away your freedom to share and change the works. By contrast,  
the GNU General Public License is intended to guarantee your freedom to  
share and change all versions of a program--to make sure it remains free  
software for all its users. We, the Free Software Foundation, use the  
GNU General Public License for most of our software; it applies also to  
any other work released this way by its authors. You can apply it to  
your programs, too.

When we speak of free software, we are referring to freedom, not  
price. Our General Public Licenses are designed to make sure that you  
have the freedom to distribute copies of free software (and charge for  
them if you wish), that you receive source code or can get it if you  
want it, that you can change the software or use pieces of it in new  
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you  
these rights or asking you to surrender the rights. Therefore, you have  
certain responsibilities if you distribute copies of the software, or if  
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether  
gratis or for a fee, you must pass on to the recipients the same  
freedoms that you received. You must make sure that they, too, receive  
or can get the source code. And you must show them these terms so they  
know their rights.

Developers that use the GNU GPL protect your rights with two steps:  
(1) assert copyright on the software, and (2) offer you this License  
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains  
that there is no warranty for this free software. For both users' and  
authors' sake, the GPL requires that modified versions be marked as



changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

## 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or

modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an

"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and

protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that

material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under



this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or

hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment

to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software

Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

## How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you

may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>. All images distributed with Prawn need to be freely distributable under a license that is compatible with our own (see LICENSE and COPYING files).

It is our understanding that all files in this folder are compatible with our licensing, but if you notice any problems, please file an issue in our tracker on Github and we will promptly address it:

<https://github.com/prawnpdf/prawn/issues>  
GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.



3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Prawn is copyrighted free software produced by Gregory Brown along with community contributions. See git log for authorship information.

Licensing terms follow:

You can redistribute Prawn and/or modify it under either the terms of the GPLv2 or GPLv3 (see GPLv2 and GPLv3 files), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
  - b) use the modified software only within your corporation or organization.
  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided.
  - d) make other distribution arrangements with the author.
3. You may distribute the software in object code or executable form, provided that you do at least ONE of the following:
  - a) distribute the executables and library files of the software,

together with instructions (in the manual page or equivalent)  
on where to get the original distribution.

b) accompany the distribution with the machine-readable source of  
the software.

c) give non-standard executables non-standard names, with  
instructions on where to get the original software distribution.

d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other  
software (possibly commercial).

5. The scripts and library files supplied as input to or produced as  
output from the software do not automatically fall under the  
copyright of the software, but belong to whomever generated them,  
and may be sold commercially, and may be aggregated with this  
software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR  
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE.

Prawn may be used under Matz's original licensing terms for Ruby, or GPLv2 or GPLv3.  
See LICENSE for Matz's terms, or GPLv2 and GPLv3 files.

# 1.697 prawn-table 0.2.2

## 1.697.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

### Preamble

The GNU General Public License is a free, copyleft license for  
software and other kinds of works.

The licenses for most software and other practical works are designed  
to take away your freedom to share and change the works. By contrast,  
the GNU General Public License is intended to guarantee your freedom to  
share and change all versions of a program--to make sure it remains free  
software for all its users. We, the Free Software Foundation, use the

GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that

patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

### 1. Source Code.



The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your

rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product

is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and

propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.



If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY

OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short  
notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, your program's commands  
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,  
if any, to sign a "copyright disclaimer" for the program, if necessary.  
For more information on this, and how to apply and follow the GNU GPL, see  
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program  
into proprietary programs. If your program is a subroutine library, you  
may consider it more useful to permit linking proprietary applications with  
the library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License. But first, please read  
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
License is intended to guarantee your freedom to share and change free  
software--to make sure the software is free for all its users. This  
General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed

under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a

special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to



refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

## NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
```

GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Prawn is copyrighted free software produced by Gregory Brown along with community contributions. See git log for authorship information.

Licensing terms follow:

You can redistribute Prawn and/or modify it under either the terms of the GPLv2 or GPLv3 (see GPLv2 and GPLv3 files), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
  - b) use the modified software only within your corporation or organization.
  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided.
  - d) make other distribution arrangements with the author.
3. You may distribute the software in object code or executable form, provided that you do at least ONE of the following:
  - a) distribute the executables and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
  - b) accompany the distribution with the machine-readable source of the software.
  - c) give non-standard executables non-standard names, with instructions on where to get the original software distribution.
  - d) make other distribution arrangements with the author.
4. You may modify and include the part of the software into any other software (possibly commercial).
5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.
6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Prawn may be used under Matz's original licensing terms for Ruby, or GPLv2 or GPLv3. See LICENSE for Matz's terms, or GPLv2 and GPLv3 files.

# 1.698 prepend-http 1.0.3

## 1.698.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.699 preserve 0.2.0

## 1.699.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.700 pretty-hrtime 1.0.1

### 1.700.1 Available under license :

Copyright (c) 2013 [Richardson & Sons, LLC](http://richardsonandsons.com/)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.701 process-nextick-args 1.0.6

### 1.701.1 Available under license :

process-nextick-args

=====

[![Build Status](https://travis-ci.org/calvinmetcalf/process-nextick-args.svg?branch=master)](https://travis-ci.org/calvinmetcalf/process-nextick-args)

```
```bash
npm install --save process-nextick-args
```
```

Always be able to pass arguments to process.nextTick, no matter the platform

```
```js
var nextTick = require('process-nextick-args');

nextTick(function (a, b, c) {
  console.log(a, b, c);
}, 'step', 3, 'profit');
```
```

## 1.702 process-nextick-args 1.0.2

### 1.702.1 Available under license :

```
{
 "name": "process-nextick-args",
 "version": "1.0.2",
 "description": "process.nextTick but always with args",
 "main": "index.js",
 "scripts": {
 "test": "node test.js"
 },
 "repository": {
 "type": "git",
 "url": "https://github.com/calvinmetcalf/process-nextick-args.git"
 },
 "author": "",
 "license": "MIT",
 "bugs": {
 "url": "https://github.com/calvinmetcalf/process-nextick-args/issues"
 },
 "homepage": "https://github.com/calvinmetcalf/process-nextick-args",
 "devDependencies": {
 "tap": "~0.2.6"
 }
}
```

## 1.703 progress 1.1.8

### 1.703.1 Available under license :

The MIT License)

Copyright (c) 2014 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.704 promptly 0.2.0

### 1.704.1 Available under license :

Copyright (c) 2012 IndigoUnited

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.705 proto-list 1.2.4

### 1.705.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any



purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.706 protobuf 2.5.0

### 1.706.1 Available under license :

Copyright 2008, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005,  
# 2006, 2007, 2008, 2009, 2010, 2011 Free Software  
# Foundation, Inc.  
# Written by Gordon Matzigkeit, 1996  
#

```
This file is part of GNU Libtool.
#
GNU Libtool is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License as
published by the Free Software Foundation; either version 2 of
the License, or (at your option) any later version.
#
As a special exception to the GNU General Public License,
if you distribute this file as part of a program or library that
is built using GNU Libtool, you may include this file under the
same distribution terms that you use for the rest of that program.
#
GNU Libtool is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
#
You should have received a copy of the GNU General Public License
along with GNU Libtool; see the file COPYING. If not, a copy
can be downloaded from http://www.gnu.org/licenses/gpl.html, or
obtained by writing to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
This originates from X11R5 (mit/util/scripts/install.sh), which was
later released in X11R6 (xc/config/util/install.sh) with the
following copyright and license.
#
Copyright (C) 1994 X Consortium
#
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
#
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
#
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNec-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#
Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
```

```
tium.
#
#
FSF changes to this file are in the public domain.
Copyright 2008 Google Inc.
#
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
#
http://www.apache.org/licenses/LICENSE-2.0
#
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This file is used for testing. The original is at:
http://code.google.com/p/pymox/
```

## 1.707 protobuf 2.6.1

### 1.707.1 Available under license :

Copyright 2008, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean Mcafee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Zhanyong Wan <wan@google.com>  
Copyright 2008, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license. This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>

Frank Yellin

Neal Norwitz <nnorwitz@google.com>

Jeffrey Yasskin <jyasskin@google.com>

Ambrose Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

\* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <proppy@aminche.com>

\* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

\* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

\* VI syntax highlighting tweaks.

\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

\* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

\* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

\* MS Visual Studio error format option.

\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

\* Added generation of field number constants.

Wink Saville <wink@google.com>

\* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.

- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.

- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

- \* Clean up some Java warnings.

- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.

- \* Added atomicops for Solaris

# 1.708 protobuf-java 2.5.0

## 1.708.1 Available under license :

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

### 1. Definitions

"Adaptation" means a work based upon the Work, or upon the Work and other pre-existing works, such as a translation, adaptation, derivative work, arrangement of music or other alterations of a literary or artistic work, or phonogram or performance and includes cinematographic adaptations or any other form in which the Work may be recast, transformed, or adapted including in any form recognizably derived from the original, except that a work that constitutes a Collection will not be considered an Adaptation for the purpose of this License. For the avoidance of

doubt, where the Work is a musical work, performance or phonogram, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered an Adaptation for the purpose of this License.

"Collection" means a collection of literary or artistic works, such as encyclopedias and anthologies, or performances, phonograms or broadcasts, or other works or subject matter other than works listed in Section 1(g) below, which, by reason of the selection and arrangement of their contents, constitute intellectual creations, in which the Work is included in its entirety in unmodified form along with one or more other contributions, each constituting separate and independent works in themselves, which together are assembled into a collective whole. A work that constitutes a Collection will not be considered an Adaptation (as defined above) for the purposes of this License.

"Distribute" means to make available to the public the original and copies of the Work or Adaptation, as appropriate, through sale or other transfer of ownership.

"License Elements" means the following high-level license attributes as selected by Licensor and indicated in the title of this License: Attribution, Noncommercial, ShareAlike.

"Licensor" means the individual, individuals, entity or entities that offer(s) the Work under the terms of this License.

"Original Author" means, in the case of a literary or artistic work, the individual, individuals, entity or entities who created the Work or if no individual or entity can be identified, the publisher; and in addition (i) in the case of a performance the actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret or otherwise perform literary or artistic works or expressions of folklore; (ii) in the case of a phonogram the producer being the person or legal entity who first fixes the sounds of a performance or other sounds; and, (iii) in the case of broadcasts, the organization that transmits the broadcast.

"Work" means the literary and/or artistic work offered under the terms of this License including without limitation any production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression including digital form, such as a book, pamphlet and other writing; a lecture, address, sermon or other work of the same nature; a dramatic or dramatico-musical work; a choreographic work or entertainment in dumb show; a musical composition with or without words; a cinematographic work to which are assimilated works expressed by a process analogous to cinematography; a work of drawing, painting, architecture, sculpture, engraving or lithography; a photographic work to which are assimilated works expressed by a process analogous to photography; a work of applied art; an illustration, map, plan, sketch or three-dimensional work relative to geography, topography, architecture or science; a performance; a broadcast; a phonogram; a compilation of data to the extent it is protected as a copyrightable work; or a work performed by a variety or circus performer to the extent it is not otherwise considered a literary or artistic work.

"You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

"Publicly Perform" means to perform public recitations of the Work and to communicate to the public those public recitations, by any means or process, including by wire or wireless means or public digital performances; to make available to the public Works in such a way that members of the public may access these Works from a place and at a place individually chosen by them; to perform the Work to the public by any means or process and the communication to the public of the performances of the Work, including by public digital performance; to broadcast and rebroadcast the Work by any means including signs, sounds or images.

"Reproduce" means to make copies of the Work by any means including without limitation by sound or visual recordings and the right of fixation and reproducing fixations of the Work, including storage of a protected performance or phonogram in digital form or other electronic medium.

2. Fair Dealing Rights. Nothing in this License is intended to reduce, limit, or restrict any uses free from copyright or rights arising from limitations or exceptions that are provided for in connection with the copyright protection under copyright law or other applicable laws.



3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

to Reproduce the Work, to incorporate the Work into one or more Collections, and to Reproduce the Work as incorporated in the Collections;

to create and Reproduce Adaptations provided that any such Adaptation, including any translation in any medium, takes reasonable steps to clearly label, demarcate or otherwise identify that changes were made to the original Work. For example, a translation could be marked "The original work was translated from English to Spanish," or a modification could indicate "The original work has been modified.";

to Distribute and Publicly Perform the Work including as incorporated in Collections; and,

to Distribute and Publicly Perform Adaptations.

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. Subject to Section 8(f), all rights not expressly granted by Licensor are hereby reserved, including but not limited to the rights described in Section 4(e).

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

You may Distribute or Publicly Perform the Work only under the terms of this License. You must include a copy of, or the Uniform Resource Identifier (URI) for, this License with every copy of the Work You Distribute or Publicly Perform. You may not offer or impose any terms on the Work that restrict the terms of this License or the ability of the recipient of the Work to exercise the rights granted to that recipient under the terms of the License. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties with every copy of the Work You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Work, You may not impose any effective technological measures on the Work that restrict the ability of a recipient of the Work from You to exercise the rights granted to that recipient under the terms of the License. This Section 4(a) applies to the Work as incorporated in a Collection, but this does not require the Collection apart from the Work itself to be made subject to the terms of this License. If You create a Collection, upon notice from any Licensor You must, to the extent practicable, remove from the Collection any credit as required by Section 4(d), as requested. If You create an Adaptation, upon notice from any Licensor You must, to the extent practicable, remove from the Adaptation any credit as required by Section 4(d), as requested.

You may Distribute or Publicly Perform an Adaptation only under: (i) the terms of this License; (ii) a later version of this License with the same License Elements as this License; (iii) a Creative Commons jurisdiction license (either this or a later license version) that contains the same License Elements as this License (e.g., Attribution-NonCommercial-ShareAlike 3.0 US) ("Applicable License"). You must include a copy of, or the URI, for Applicable License with every copy of each Adaptation You Distribute or Publicly Perform. You may not offer or impose any terms on the Adaptation that restrict the terms of the Applicable License or the ability of the recipient of the Adaptation to exercise the rights granted to that recipient under the terms of the Applicable License. You must keep intact all notices that refer to the Applicable License and to the disclaimer of warranties with every copy of the Work as included in the Adaptation You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Adaptation, You may not impose any effective technological measures on the Adaptation that restrict the ability of a recipient of the Adaptation from You to exercise the rights granted to that recipient under the terms of the Applicable License. This Section 4(b) applies to the Adaptation as incorporated in a Collection, but this does not require the Collection apart from the Adaptation itself to be made subject to the terms of the Applicable License.

You may not exercise any of the rights granted to You in Section 3 above in any manner that is primarily intended

for or directed toward commercial advantage or private monetary compensation. The exchange of the Work for other copyrighted works by means of digital file-sharing or otherwise shall not be considered to be intended for or directed toward commercial advantage or private monetary compensation, provided there is no payment of any monetary compensation in connection with the exchange of copyrighted works.

If You Distribute, or Publicly Perform the Work or any Adaptations or Collections, You must, unless a request has been made pursuant to Section 4(a), keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or if the Original Author and/or Licensor designate another party or parties (e.g., a sponsor institute, publishing entity, journal) for attribution ("Attribution Parties") in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; (ii) the title of the Work if supplied; (iii) to the extent reasonably practicable, the URI, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and, (iv) consistent with Section 3(b), in the case of an Adaptation, a credit identifying the use of the Work in the Adaptation (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). The credit required by this Section 4(d) may be implemented in any reasonable manner; provided, however, that in the case of a Adaptation or Collection, at a minimum such credit will appear, if a credit for all contributing authors of the Adaptation or Collection appears, then as part of these credits and in a manner at least as prominent as the credits for the other contributing authors. For the avoidance of doubt, You may only use the credit required by this Section for the purpose of attribution in the manner set out above and, by exercising Your rights under this License, You may not implicitly or explicitly assert or imply any connection with, sponsorship or endorsement by the Original Author, Licensor and/or Attribution Parties, as appropriate, of You or Your use of the Work, without the separate, express prior written permission of the Original Author, Licensor and/or Attribution Parties.

For the avoidance of doubt:

**Non-waivable Compulsory License Schemes.** In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme cannot be waived, the Licensor reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License;

**Waivable Compulsory License Schemes.** In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme can be waived, the Licensor reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License if Your exercise of such rights is for a purpose or use which is otherwise than noncommercial as permitted under Section 4(c) and otherwise waives the right to collect royalties through any statutory or compulsory licensing scheme; and,

**Voluntary License Schemes.** The Licensor reserves the right to collect royalties, whether individually or, in the event that the Licensor is a member of a collecting society that administers voluntary licensing schemes, via that society, from any exercise by You of the rights granted under this License that is for a purpose or use which is otherwise than noncommercial as permitted under Section 4(c).

Except as otherwise agreed in writing by the Licensor or as may be otherwise permitted by applicable law, if You Reproduce, Distribute or Publicly Perform the Work either by itself or as part of any Adaptations or Collections, You must not distort, mutilate, modify or take other derogatory action in relation to the Work which would be prejudicial to the Original Author's honor or reputation. Licensor agrees that in those jurisdictions (e.g. Japan), in which any exercise of the right granted in Section 3(b) of this License (the right to make Adaptations) would be deemed to be a distortion, mutilation, modification or other derogatory action prejudicial to the Original Author's honor and reputation, the Licensor will waive or not assert, as appropriate, this Section, to the fullest extent permitted by the applicable national law, to enable You to reasonably exercise Your right under Section 3(b) of this License (right to make Adaptations) but not otherwise.

## 5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING AND TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THIS EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 7. Termination

This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Adaptations or Collections from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

#### 8. Miscellaneous

Each time You Distribute or Publicly Perform the Work or a Collection, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

Each time You Distribute or Publicly Perform an Adaptation, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

The rights granted under, and the subject matter referenced, in this License were drafted utilizing the terminology of the Berne Convention for the Protection of Literary and Artistic Works (as amended on September 28, 1979), the Rome Convention of 1961, the WIPO Copyright Treaty of 1996, the WIPO Performances and Phonograms Treaty of 1996 and the Universal Copyright Convention (as revised on July 24, 1971). These rights and subject matter take effect in the relevant jurisdiction in which the License terms are sought to be enforced according to the

corresponding provisions of the implementation of those treaty provisions in the applicable national law. If the standard suite of rights granted under applicable copyright law includes additional rights not granted under this License, such additional rights are deemed to be included in the License; this License is not intended to restrict the license of any rights under applicable law.

# 1.709 protobuf\_Apache 2.5.0

## 1.709.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright

owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions

stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# Copyright 2008 Google Inc.

#

# Licensed under the Apache License, Version 2.0 (the "License");

# you may not use this file except in compliance with the License.

# You may obtain a copy of the License at

#

# <http://www.apache.org/licenses/LICENSE-2.0>

#

# Unless required by applicable law or agreed to in writing, software

# distributed under the License is distributed on an "AS IS" BASIS,

# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

# See the License for the specific language governing permissions and

# limitations under the License.

# This file is used for testing. The original is at:

# <http://code.google.com/p/pymox/>

## 1.710 Protocol Buffer Java API 2.5.0

### 1.710.1 Available under license :

// Protocol Buffers - Google's data interchange format

// Copyright 2008 Google Inc. All rights reserved.

// <http://code.google.com/p/protobuf/>

//

// Redistribution and use in source and binary forms, with or without

// modification, are permitted provided that the following conditions are

// met:

//

// \* Redistributions of source code must retain the above copyright

// notice, this list of conditions and the following disclaimer.

// \* Redistributions in binary form must reproduce the above

// copyright notice, this list of conditions and the following disclaimer

// in the documentation and/or other materials provided with the

// distribution.

// \* Neither the name of Google Inc. nor the names of its

// contributors may be used to endorse or promote products derived from

// this software without specific prior written permission.

//

// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.711 protractor-screenshot-reporter 0.0.5

### 1.711.1 Available under license :

Copyright (c) 2014 Manuel Alabor <manuel@alabor.me>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.712 pump 1.0.1

### 1.712.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:



The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.713 py4j 0.8.2.1

## 1.714 pyrolite 2.0.1

## 1.715 python 2.7

### 1.715.1 Available under license :

#### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 2.7            | 2.6          | 2010      | PSF        | yes                 |

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute

a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

## B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

=====

### PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

-----

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS

A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,  
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

#### BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

-----

#### BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY

DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at <http://www.pythonlabs.com/logos.html> may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

#### CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

-----

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: <http://hdl.handle.net/1895.22/1013>".

3. In the event Licensee prepares a derivative work that is based on

or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based

on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

-----

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.716 python-ambariclient 0.5.9

## 1.717 python-libs 2.6.6 :29.el6\_3.3.x86\_64

### 1.717.1 Available under license :

libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR

OTHER DEALINGS IN THE SOFTWARE.

A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

=====

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

-----

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby

grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0  
-----

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using

this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at <http://www.pythonlabs.com/logos.html> may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

#### CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

-----

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization

("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: <http://hdl.handle.net/1895.22/1013>".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was

previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

-----

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> &  
Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

X Window System is a trademark of The Open Group  
pybench License  
-----

This copyright notice and license applies to all files in the pybench directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (mal@lemburg.com)  
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee or royalty is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation or portions thereof, including modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE !

libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libffi - Copyright (c) 1996-2008 Red Hat, Inc and others.

See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.718 python-numpy 1.9.1

### 1.718.1 Available under license :

Copyright (c) 2005-2011, NumPy Developers.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the NumPy Developers nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR



A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.719 python-six 1.9.0

### 1.719.1 Available under license :

Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.720 q 1.4.1

### 1.720.1 Available under license :

Copyright 20092014 Kristopher Michael Kowal. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2008-2011 Pivotal Labs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.721 q 0.9.7

### 1.721.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or

indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

/\*!

\*

\* Copyright 2009-2012 Kris Kowal under the terms of the MIT  
\* license found at <http://github.com/kriskowal/q/raw/master/LICENSE>

\*

\* With parts by Tyler Close  
\* Copyright 2007-2009 Tyler Close under the terms of the MIT X license found  
\* at <http://www.opensource.org/licenses/mit-license.html>  
\* Forked at ref\_send.js version: 2009-05-11

\*

\* With parts by Mark Miller  
\* Copyright (C) 2011 Google Inc.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

- \* Unless required by applicable law or agreed to in writing, software
- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.
- \*
- \*/

Copyright 20092012 Kristopher Michael Kowal. All rights reserved.  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.722 qs 2.3.3

### 1.722.1 Available under license :

Copyright (c) 2014 Nathan LaFreniere and other contributors.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE

DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hapijs/qs/graphs/contributors>

## 1.723 qs 0.6.6

### 1.723.1 Available under license :

(The MIT License)

Copyright (c) 2010 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.724 Qt 4.6.2

### 1.724.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that



there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work

based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply,

and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY



15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!  
Nokia Qt LGPL Exception version 1.1

As an additional permission to the GNU Lesser General Public License version 2.1, the object code form of a "work that uses the Library" may incorporate material from a header file that is part of the Library. You may distribute such object code under terms of your choice, provided that:

- (i) the header files of the Library have not been modified; and
- (ii) the incorporated material is limited to numerical parameters, data structure layouts, accessors, macros, inline functions and templates; and
- (iii) you comply with the terms of Section 6 of the GNU Lesser General Public License version 2.1.

Moreover, you may apply this exception to a modified version of the Library, provided that such modification does not involve copying material from the Library into the modified Library's header files unless such material is limited to (i) numerical parameters; (ii) data structure layouts; (iii) accessors; and (iv) small macros, templates and inline functions of five lines or less in length.

Furthermore, you are not required to apply this additional permission to a modified version of the Library.

/\*\*\*\*\*

\*\*

\*\* Copyright (C) 2010 Nokia Corporation and/or its subsidiary(-ies).

\*\* All rights reserved.

\*\* Contact: Nokia Corporation (qt-info@nokia.com)

\*\*

\*\* \$QT\_BEGIN\_LICENSE:LGPL\$

\*\* Commercial Usage

\*\* Licensees holding valid Qt Commercial licenses may use this file in  
\*\* accordance with the Qt Commercial License Agreement provided with the  
\*\* Software or, alternatively, in accordance with the terms contained in  
\*\* a written agreement between you and Nokia.

\*\*

\*\* GNU Lesser General Public License Usage

\*\* Alternatively, this file may be used under the terms of the GNU Lesser  
\*\* General Public License version 2.1 as published by the Free Software  
\*\* Foundation and appearing in the file LICENSE.LGPL included in the  
\*\* packaging of this file. Please review the following information to  
\*\* ensure the GNU Lesser General Public License version 2.1 requirements  
\*\* will be met: <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>.

\*\*

\*\* In addition, as a special exception, Nokia gives you certain additional  
\*\* rights. These rights are described in the Nokia Qt LGPL Exception  
\*\* version 1.1, included in the file LGPL\_EXCEPTION.txt in this package.

\*\*

\*\* GNU General Public License Usage

\*\* Alternatively, this file may be used under the terms of the GNU  
\*\* General Public License version 3.0 as published by the Free Software  
\*\* Foundation and appearing in the file LICENSE.GPL included in the  
\*\* packaging of this file. Please review the following information to  
\*\* ensure the GNU General Public License version 3.0 requirements will be  
\*\* met: <http://www.gnu.org/copyleft/gpl.html>.

\*\*

\*\* If you have questions regarding the use of this file, please contact

\*\* Nokia at [qt-info@nokia.com](mailto:qt-info@nokia.com).

\*\* \$Q\_T\_END\_LICENSE\$

\*\*

\*\*\*\*\*/

## 1.725 rack 1.6.4

## 1.726 rack 1.5.5

### 1.726.1 Available under license :

Copyright (c) 2007, 2008, 2009, 2010, 2011, 2012 Christian Neukirchen <[purl.org/net/chneukirchen](mailto:purl.org/net/chneukirchen)>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.727 rack 1.5.2

### 1.727.1 Available under license :

Copyright (c) 2007, 2008, 2009, 2010, 2011, 2012 Christian Neukirchen <[purl.org/net/chneukirchen](http://purl.org/net/chneukirchen)>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.728 rack 1.5.5

## 1.729 rack-protection 1.5.3

### 1.729.1 Available under license :

Copyright (c) 2011 Konstantin Haase

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.730 rack-reverse-proxy 0.11.0

### 1.730.1 Available under license :

Copyright (c) 2009 Jon Swope

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.731 rack-test 0.6.3

# 1.732 rack-test 0.6.2

## 1.732.1 Available under license :

Copyright (c) 2008-2009 Bryan Helmkamp, Engine Yard Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.733 rails 4.1.0

## 1.733.1 Available under license :

Copyright (c) 2005-2013 David Heinemeier Hansson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.734 rails\_12factor 0.0.3

### 1.734.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013,2014 Heroku

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.735 rails\_config 0.4.2

### 1.735.1 Available under license :

The MIT License (MIT)

Copyright (c) 2010-2014 Jacques Crocker, Fred Wu, Piotr Kuczynski

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Third-party materials and licenses:

\* RailsConfig contains Deep Merge (deep\_merge.rb) which is governed by the MIT license  
Copyright (C) 2008 Steve Midgley

## 1.736 rails\_serve\_static\_assets 0.0.5

### 1.736.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013,2014 Heroku

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.737 rails\_stdout\_logging 0.0.5

### 1.737.1 Available under license :

Copyright (c) 2012 Jonathan Dance

MIT License



Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.738 ralties 4.1.0

### 1.738.1 Available under license :

Copyright <%= Date.today.year %> YOURNAME

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.739 rake 10.3.2

## 1.739.1 Available under license :

Copyright (c) Jim Weirich

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.740 rake 10.4.2

## 1.741 range-parser 1.0.2

### 1.741.1 Available under license :

(The MIT License)

Copyright (c) 2012-2014 TJ Holowaychuk <vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.742 rb-readline 0.5.3

### 1.742.1 Available under license :

Copyright (c) 2009, Park Heesob  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Park Heesob nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.743 rc 1.1.5

### 1.743.1 Available under license :

The MIT License

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge,

to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Dominic Tarr  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of the FreeBSD Project.

Apache License, Version 2.0

Copyright (c) 2011 Dominic Tarr

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.744 read 1.0.7

### 1.744.1 Available under license :

```
{
 "name": "read",
 "version": "1.0.7",
 "main": "lib/read.js",
 "dependencies": {
 "mute-stream": "~0.0.4"
 },
 "devDependencies": {
 "tap": "^1.2.0"
 },
 "engines": {
 "node": ">=0.8"
 },
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me/)",
 "description": "read(1) for node programs",
 "repository": {
 "type": "git",
 "url": "git://github.com/isaacs/read.git"
 },
 "license": "ISC",
 "scripts": {
 "test": "tap test/*.js"
 },
 "files": [
 "lib/read.js"
]
}
```

# 1.745 read-all-stream 3.0.1

## 1.745.1 Available under license :

The MIT License (MIT)

Copyright (c) Vsevolod Strukchinsky <floatdrop@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.746 read-pkg 1.1.0

## 1.746.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.747 read-pkg-up 1.0.1

### 1.747.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.748 readable-stream 1.1.13

### 1.748.1 Available under license :

Copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.749 readable-stream 1.0.33

### 1.749.1 Available under license :

Copyright Joyent, Inc. and other Node contributors. All rights reserved.  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.750 readdirp 2.0.0

### 1.750.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER



IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.751 readline2 1.0.1

### 1.751.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Simon Boudrias

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.752 rechoir 0.6.2

### 1.752.1 Available under license :

Copyright (c) 2014 Tyler Kellen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES

OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.753 redent 1.0.0

### 1.753.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.754 redeyed 0.4.4

### 1.754.1 Available under license :

Copyright 2012 Thorsten Lorenz.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.755 redeyed 0.4.4

### 1.755.1 Available under license :

Copyright 2012 Thorsten Lorenz.  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.756 redis 3.2.2

## 1.756.1 Available under license :

Copyright (c) 2009 Ezra Zygmuntowicz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.757 redis-actionpack 4.0.1

### 1.757.1 Available under license :

Copyright (c) 2009 - 2011 Luca Guidi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.758 redis-activesupport 4.1.5

## 1.758.1 Available under license :

Copyright (c) 2009 - 2011 Luca Guidi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.759 redis-collectd-plugin master

## 1.759.1 Available under license :

```
This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the
Free Software Foundation; only version 2 of the License is applicable.
#
This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.
#
You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
#
Authors:
Garret Heaton <powdahound at gmail.com>
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
```

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,



c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

```
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

# 1.760 redis-namespace 1.5.2

## 1.761 redis-rack 1.5.0

### 1.761.1 Available under license :

Copyright (c) 2009 - 2013 Luca Guidi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.762 redis-rails 4.0.0

### 1.762.1 Available under license :

Copyright (c) 2009 - 2011 Luca Guidi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.763 redis-store 1.1.7

### 1.763.1 Available under license :

Copyright (c) 2009 - 2011 Luca Guidi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.764 ReflectASM 1.07

### 1.764.1 Available under license :

<OWNER> = Regents of the University of California

<ORGANIZATION> = University of California, Berkeley

<YEAR> = 1998

In the original BSD license, the occurrence of "copyright holder" in the 3rd clause read "ORGANIZATION", placeholder for "University of California". In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.765 regex-cache 0.4.2

### 1.765.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.766 registry-url 3.0.3

### 1.766.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.767 repeat-element 1.1.2

### 1.767.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Jon Schlinkert

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.



THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.768 repeat-string 1.5.2

### 1.768.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.769 replace-ext 0.0.1

### 1.769.1 Available under license :

Copyright (c) 2014 Fractal <contact@wearefractal.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.770 request 2.53.0

### 1.770.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix

below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute

must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

# 1.771 request 2.60.0

## 1.771.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the

Licensors for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any

additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.772 request-progress 0.3.1

### 1.772.1 Available under license :

Copyright (c) 2012 IndigoUnited

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.773 request-replay 0.2.0

### 1.773.1 Available under license :

Copyright (c) 2012 IndigoUnited

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.774 resolve 1.1.6

### 1.774.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR



IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.775 responders 1.1.2

## 1.776 response-time 2.3.1

### 1.776.1 Available under license :

(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.777 resque-loner 1.2.1

### 1.777.1 Available under license :

Copyright (c) 2010 Moviepilot GmbH <http://moviepilot.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.778 resque-scheduler 4.0.0

### 1.778.1 Available under license :

Copyright (c) 2014 Ben VandenBos

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.779 rest-client 1.8.0

## 1.779.1 Available under license :

The MIT License (MIT)

Copyright (c) 2008-2014 Rest Client Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.780 restore-cursor 1.0.1

### 1.780.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

THE SOFTWARE.

## 1.781 retry 0.6.1

### 1.781.1 Available under license :

Copyright (c) 2011:

Tim Koschtzki (tim@debuggable.com)

Felix Geisendrfer (felix@debuggable.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.782 rimraf 2.4.3

### 1.782.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.783 rimraf 2.4.2

## 1.783.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.784 rndm 1.1.0

## 1.784.1 Available under license :

```
{
 "name": "rndm",
 "description": "random string generator",
 "version": "1.1.0",
 "author": {
 "name": "Jonathan Ong",
 "email": "me@jongleberry.com",
 "url": "http://jongleberry.com",
 "twitter": "https://twitter.com/jongleberry"
 },
 "license": "MIT",
 "devDependencies": {
 "mocha": "2",
 "istanbul": "0"
 },
 "repository": "crypto-utils/rndm",
 "scripts": {
 "test": "mocha",
 "test-cov": "istanbul cover node_modules/mocha/bin/_mocha -- --reporter dot",
 "test-travis": "istanbul cover node_modules/mocha/bin/_mocha --report lcovonly -- --reporter dot"
 },
 "keywords": [
 "random",
```

```
"number",
"generator",
"uid",
"id"
],
"files": [
 "index.js"
]
}
```

# 1.785 RoaringBitmap 0.4.5

## 1.785.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.



5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.786 rolify 4.1.1

### 1.786.1 Available under license :

Florent Monbillard (@EppO) - Original Author

Wellington Cordeiro (@wldcordeiro)

Joel Azemar (@joel)

Alex Klim (@AlexKlim)

Mauro George (@MauroGeorge)

Cheri Allen(@cherimarie)

Copyright (c) 2011 Florent Monbillard

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.787 rotp 2.1.2

### 1.787.1 Available under license :

Copyright (C) 2011 by Mark Percival <m@mdp.im>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.788 rspec-core 3.4.4

## 1.789 rspec-expectations 3.4.0

## 1.790 rspec-mocks 3.4.1

## 1.791 rspec-rails 3.4.2

## 1.792 rspec-support 3.4.1

## 1.793 ruby-druid 0.1.9

### 1.793.1 Available under license :

Copyright (c) 2013 madvertise Mobile Advertising GmbH

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.794 ruby-druid master

### 1.794.1 Available under license :

Copyright (c) 2013 madvertise Mobile Advertising GmbH

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.795 ruby-gems-foreman 0.81.0 :1

### 1.795.1 Available under license :

From RPM File Metadata:Distributable

## 1.796 ruby-gems-mixlib-shellout 1.6.1 :1

### 1.796.1 Available under license :

From RPM File Metadata:Distributable

## 1.797 ruby-xz 0.2.3

### 1.797.1 Available under license :

(The MIT License)

Basic liblzma-bindings for Ruby.

Copyright 2011-2014 Marvin Glker et al.

See the file `AUTHORS' for the full list of contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the Software), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.798 rufus-scheduler 3.2.0

### 1.798.1 Available under license :

Copyright (c) 2005-2015, John Mettraux, jmettraux@gmail.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.799 run-async 0.1.0

### 1.799.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Simon Boudrias

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.800 rx-lite 3.1.2

### 1.800.1 Available under license :

Copyright (c) Microsoft Open Technologies, Inc. All rights reserved. Microsoft Open Technologies would like to thank its contributors, a list of whom are at <https://github.com/Reactive-Extensions/RxJS/wiki/Contributors>.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.801 safe\_yaml 1.0.4

### 1.801.1 Available under license :

Copyright (c) 2013 Dan Tao

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.802 sass 3.2.19

### 1.802.1 Available under license :

Copyright (c) 2013 Thibaud Guillaume-Gentil

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2006-2013 Hampton Catlin, Nathan Weizenbaum, and Chris Eppstein

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE



LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.803 sass-rails 4.0.5

## 1.803.1 Available under license :

Copyright (c) 2011 Christopher Eppstein

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2013 YOURNAME

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.804 saucelabs 0.1.1

## 1.805 sax 0.6.1

### 1.805.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")  
All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file "examples/strict.dtd" is licensed by the W3C and used according to the terms of the W3C SOFTWARE NOTICE AND LICENSE. See LICENSE-W3C.html for details.

"String.fromCodePoint" used under the terms of the MIT license. Its license follows:

Copyright Mathias Bynens <<http://mathiasbynens.be/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.806 sax (npm) 0.6.1

### 1.806.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")  
All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,

WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file "examples/strict.dtd" is licensed by the W3C and used according to the terms of the W3C SOFTWARE NOTICE AND LICENSE. See LICENSE-W3C.html for details.

"String.fromCodePoint" used under the terms of the MIT license. Its license follows:

Copyright Mathias Bynens <<http://mathiasbynens.be/>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

W3C Software Notice and License

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license.

License

By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C

Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

#### Disclaimers

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

#### Notes

This version: <http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231>

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition.

## 1.807 sax (npm)\_examples/strict.dtd 0.6.1

### 1.807.1 Available under license :

W3C Software Notice and License

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license.

#### License

By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

#### Disclaimers

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

#### Notes

This version: <http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231>

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition.

## 1.808 Scala Compiler 2.10.4

## 1.809 scala-library 2.10.4

### 1.809.1 Available under license :

Copyright (c) 2002-2014 EPFL

Copyright (c) 2011-2014 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.810 scala-reflect 2.10.4

### 1.810.1 Available under license :

Copyright (c) 2002-2014 EPFL

Copyright (c) 2011-2014 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.811 scalap 2.10.0

## 1.811.1 Available under license :

Copyright (c) 2002-2014 EPFL

Copyright (c) 2011-2014 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS öAS ISö AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
// -----
//
// Scalax - The Scala Community Library
// Copyright (c) 2005-8 The Scalax Project. All rights reserved.
//
// The primary distribution site is http://scalax.scalaforge.org/
//
// This software is released under the terms of the Revised BSD License.
// There is NO WARRANTY. See the file LICENSE for the full text.
//
// -----
```

# 1.812 scipy 0.15.1



## 1.812.1 Available under license :

---

The files

- numpydoc.py
- docsrape.py
- docsrape\_sphinx.py
- phantom\_import.py

have the following license:

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The files

- compiler\_unparse.py
- comment\_eater.py
- traitsdoc.py

have the following license:

This software is OSI Certified Open Source Software.

OSI Certified is a certification mark of the Open Source Initiative.

Copyright (c) 2006, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Enthought, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The file  
- plot\_directive.py  
originates from Matplotlib (<http://matplotlib.sf.net/>) which has  
the following license:

Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved.

1. This LICENSE AGREEMENT is between John D. Hunter (JDH), and the Individual or Organization (Licensee) accessing and otherwise using matplotlib software in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 0.98.3 alone or in any derivative version, provided, however, that JDHs License Agreement and JDHs notice of copyright, i.e., Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved are retained in matplotlib 0.98.3 alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 0.98.3 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to matplotlib 0.98.3.
4. JDH is making matplotlib 0.98.3 available to Licensee on an AS IS basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF

MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 0.98.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 0.98.3 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 0.98.3, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib 0.98.3, Licensee agrees to be bound by the terms and conditions of this License Agreement.

Copyright (C) 2003-2005 Peter J. Verveer

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

- \* The i1mach,r1mach,d1mach routines supplied here are not the official
- \* netlib versions. They are said to be enhanced copies of the 1975
- \* release. If you have troubles, try mailing to netlib
- \* send i1mach r1mach d1mach from blas

\* and see if that helps.

files split from toms/big644 on 1 Dec 1987 (already public)

-----m dongarra Fri Jun 21 17:58:49 EDT 1991

Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years. The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the "-l" prefix from amos in /netlib/admin/LIBS.

Qhull, Copyright (c) 1993-2012

C.B. Barber  
Arlington, MA

and

The National Science and Technology Research Center for  
Computation and Visualization of Geometric Structures  
(The Geometry Center)  
University of Minnesota

email: qhull@qhull.org

This software includes Qhull from C.B. Barber and The Geometry Center. Qhull is copyrighted as noted above. Qhull is free software and may be obtained via http from [www.qhull.org](http://www.qhull.org). It may be freely copied, modified, and redistributed under the following conditions:

1. All copyright notices must remain intact in all files.
2. A copy of this text file must be distributed along with any copies of Qhull that you redistribute; this includes copies that you have modified, or copies of programs or other software products that include Qhull.
3. If you modify Qhull, you must include a notice giving the name of the person performing the modification, the date of modification, and the reason for such modification.
4. When distributing modified versions of Qhull, or other software products that include Qhull, you must provide notice that the original source code may be obtained as noted above.
5. There is no warranty or other guarantee of fitness for Qhull, it is provided solely "as is". Bug reports or fixes may be sent to [qhull\\_bug@qhull.org](mailto:qhull_bug@qhull.org); the authors may or may not act on them as

they desire.

This version obtained on 1 Jun 84 from (kahaner@nbs-sdc)

David K. Kahaner

Scientific Computing Division

National Bureau of Standards

Washington DC 20234

WARNING: the calling sequences here differ from those in the book:

R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner

Quadpack: a Subroutine Package for Automatic Integration

Springer Verlag, 1983. Series in Computational Mathematics v.1

prehistoric

BSD Software License

Pertains to ARPACK and P\_ARPACK

Copyright (c) 1996-2008 Rice University.

Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.

All rights reserved.

Arpack has been renamed to arpack-ng.

Copyright (c) 2001-2011 - Scilab Enterprises

Updated by Allan Cornet, Sylvestre Ledru.

Copyright (c) 2010 - Jordi Gutierrez Hermoso (Octave patch)

Copyright (c) 2007 - Sbastien Fabbro (gentoo patch)

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
Copyright (c) 2002-2005, Jean-Sebastien Roy (js@jeannot.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
weave is distributed under the same license as SciPy which uses a BSD Style license. weave includes blitz++ by Todd Veldhuizen who kindly granted us permission to use blitz++ with the regular SciPy license (i.e., the revised BSD license). For more details see the email exchange below:

-----  
Todd Veldhuizen <tveldhui AT gmail DOT com> Tue, Mar 25, 2008 at 11:55 AM  
To: Jarrod Millman <millman AT berkeley DOT edu>  
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen <tveldhui AT acm DOT org>

I have no objections to releasing it under a BSD license.

best  
Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:  
> Julian and Todd,  
>

> I'm writing to see if we can get an exception to the Blitz license so  
> that it can be released with a BSD license within SciPy. Currently,  
> the Fedora project is classifying the entire SciPy package as GPLed  
> because one package, scipy.weave, uses blitz. (the rest of the code is  
> all BSD). We were about to launch into the re-factoring step to make  
> the blitz portion optional, when it occurred to us to just ask you  
> guys first. :-)  
>  
> Blitz is included in the scipy.weave package which allows you to  
> inline C/C++ within Python. Users have the option of converting NumPy  
> arrays to blitz arrays for use in C++. There is also a function  
> (weave.blitz) that will automatically convert NumPy expressions in  
> Python to Blitz expressions in C++. Often this shows notable speed  
> improvements. Our re-factoring step will require us to split the  
> blitz code into the blitz and non-blitz portions. This is a bit of a  
> pain, and ends up with more installation issues than if we didn't do  
> it.  
>  
> Thanks for your consideration,  
>  
> --  
> Jarrod Millman  
> Computational Infrastructure for Research Labs  
> 10 Giannini Hall, UC Berkeley  
> phone: 510.643.4014  
> <http://cirl.berkeley.edu/>

-----  
weave also includes CXX by Paul Dubois, portions of SCXX by Gordon McMillan.  
The licenses for CXX and SCXX are different, but allow free use for  
both commercial and non-commercial purposes. The licenses for each are  
listed below:

-----  
SciPy License

Copyright (c) 2001, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice,  
this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

- c. Neither the name of the Enthought nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
CXX License

\*\*\* Legal Notice for all LLNL-contributed files \*\*\*

Copyright (c) 1996. The Regents of the University of California.  
All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

This work was produced at the University of California, Lawrence Livermore National Laboratory under contract no. W-7405-ENG-48 between the U.S. Department of Energy and The Regents of the University of California for the operation of UC LLNL.

#### DISCLAIMER

This software was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately-owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by



the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

-----  
SCXX License

No restrictions on usage, modification or redistribution, as long as the copyright notice is maintained. No warranty whatsoever.

copyright 1999 McMillan Enterprises, Inc.  
www.mcmillan-inc.com  
Copyright (c) 2001, 2002 Enthought, Inc.  
All rights reserved.

Copyright (c) 2003-2012 SciPy Developers.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of Enthought nor the names of the SciPy Developers may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.813 scmp 1.0.0

## 1.813.1 Available under license :

Copyright (c) 2014, Sean Lavine  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the scmp project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.814 screen 4.0.3

## 1.814.1 Available under license :

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed

under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a

special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

## NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the



GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

# 1.815 semver 4.3.6

## 1.815.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.816 semver 5.1.0

### 1.816.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.817 semver 5.0.1

### 1.817.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.818 semver 4.3.6

## 1.818.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.819 send 0.13.0

## 1.819.1 Available under license :

(The MIT License)

Copyright (c) 2012 TJ Holowaychuk

Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.820 sequencify 0.0.7

## 1.820.1 Available under license :

Copyright (c) 2013 [Richardson & Sons, LLC](<http://richardsonandsons.com/>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.821 serve-favicon 2.3.0

## 1.821.1 Available under license :

(The MIT License)

Copyright (c) 2010 Sencha Inc.

Copyright (c) 2011 LearnBoost

Copyright (c) 2011 TJ Holowaychuk

Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.822 serve-index 1.7.2

### 1.822.1 Available under license :

(The MIT License)

Copyright (c) 2010 Sencha Inc.

Copyright (c) 2011 LearnBoost

Copyright (c) 2011 TJ Holowaychuk

Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.823 servlet-api 2.5

### 1.823.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

Version 1.0

Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable means the Covered Software in any form other than Source Code.

1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License means this document.

1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

### 3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the

Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

#### 4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,



MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses

Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

/\*

- \* The contents of this file are subject to the terms
- \* of the Common Development and Distribution License
- \* (the "License"). You may not use this file except
- \* in compliance with the License.
- \*
- \* You can obtain a copy of the license at
- \* [glassfish/bootstrap/legal/CDDLv1.0.txt](http://glassfish/bootstrap/legal/CDDLv1.0.txt) or
- \* <https://glassfish.dev.java.net/public/CDDLv1.0.html>.
- \* See the License for the specific language governing
- \* permissions and limitations under the License.
- \*
- \* When distributing Covered Code, include this CDDL
- \* HEADER in each file and include the License file at
- \* [glassfish/bootstrap/legal/CDDLv1.0.txt](http://glassfish/bootstrap/legal/CDDLv1.0.txt). If applicable,
- \* add the following below this CDDL HEADER, with the
- \* fields enclosed by brackets "[]" replaced with your
- \* own identifying information: Portions Copyright [yyyy]
- \* [name of copyright owner]
- \*
- \* Copyright 2005 Sun Microsystems, Inc. All rights reserved.
- \*
- \* Portions Copyright Apache Software Foundation.

\*/

# 1.824 Sha256 from 7-zip 9.21

## 1.824.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source

code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference



directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you

distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

7-Zip source code

~~~~~

License for use and distribution

~~~~~

7-Zip Copyright (C) 1999-2010 Igor Pavlov.

Licenses for files are:

- 1) CPP/7zip/Compress/Rar\* files: GNU LGPL + unRAR restriction
- 2) All other files: GNU LGPL

The GNU LGPL + unRAR restriction means that you must follow both GNU LGPL rules and unRAR restriction rules.

GNU LGPL information

-----

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

unRAR restriction

-----

The decompression engine for RAR archives was developed using source code of unRAR program.

All copyrights to original unRAR code are owned by Alexander Roshal.

The license for original unRAR code has the following restriction:

The unRAR sources cannot be used to re-create the RAR compression algorithm, which is proprietary. Distribution of modified unRAR sources in separate form or as a part of other software is permitted, provided that it is clearly stated in the documentation and source comments that the code may not be used to develop a RAR (WinRAR) compatible archiver.

--

Igor Pavlov

```
***** ***** ***** unRAR - free utility for RAR archives
** ** ** ** ** ** ~~~~~
***** ***** ***** License for use and distribution of
** ** ** ** ** ** ~~~~~
** ** ** ** ** ** FREE portable version
                               ~~~~~
```

The source code of unRAR utility is freeware. This means:

1. All copyrights to RAR and the utility unRAR are exclusively owned by the author - Alexander Roshal.
2. The unRAR sources may be used in any software to handle RAR archives without limitations free of charge, but cannot be used to re-create the RAR compression algorithm, which is proprietary. Distribution of modified unRAR sources in separate form or as a

part of other software is permitted, provided that it is clearly stated in the documentation and source comments that the code may not be used to develop a RAR (WinRAR) compatible archiver.

3. The unRAR utility may be freely distributed. No person or company may charge a fee for the distribution of unRAR without written permission from the copyright holder.
4. THE RAR ARCHIVER AND THE UNRAR UTILITY ARE DISTRIBUTED "AS IS". NO WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED. YOU USE AT YOUR OWN RISK. THE AUTHOR WILL NOT BE LIABLE FOR DATA LOSS, DAMAGES, LOSS OF PROFITS OR ANY OTHER KIND OF LOSS WHILE USING OR MISUSING THIS SOFTWARE.
5. Installing and using the unRAR utility signifies acceptance of these terms and conditions of the license.
6. If you don't agree with terms of the license you must remove unRAR files from your storage devices and cease to use the utility.

Thank you for your interest in RAR and unRAR.

Alexander L. Roshal

## 1.825 shelljs 0.2.6

### 1.825.1 Available under license :

Copyright (c) 2012, Artur Adib <aadib@mozilla.com>

All rights reserved.

You may use this project under the terms of the New BSD license as follows:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Artur Adib nor the names of the contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ARTUR ADIB BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
// Recursively copies 'sourceDir' into 'destDir'  
// Adapted from https://github.com/ryanmcgrath/wrench-js  
//  
// Copyright (c) 2010 Ryan McGrath  
// Copyright (c) 2012 Artur Adib  
//  
// Licensed under the MIT License  
// http://www.opensource.org/licenses/mit-license.php  
// Recursively removes 'dir'  
// Adapted from https://github.com/ryanmcgrath/wrench-js  
//  
// Copyright (c) 2010 Ryan McGrath  
// Copyright (c) 2012 Artur Adib  
//  
// Licensed under the MIT License  
// http://www.opensource.org/licenses/mit-license.php
```

## 1.826 sigmund 1.0.1

### 1.826.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



# 1.827 sigmund 1.0.1

## 1.827.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.828 signal-exit 2.1.2

## 1.828.1 Available under license :

Copyright (c) 2015, Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.829 sinatra 1.4.7

## 1.829.1 Available under license :

Copyright (c) 2007, 2008, 2009 Blake Mizerany

Copyright (c) 2010, 2011, 2012, 2013, 2014, 2015, 2016 Konstantin Haase

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation

files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.830 sinatra 1.4.6

## 1.831 slf4j-api 1.6.2

### 1.831.1 Available under license :

/\*

\* Copyright (c) 2004-2005 SLF4J.ORG

\* Copyright (c) 2004-2005 QOS.ch

\*

\* All rights reserved.

\*

\* Permission is hereby granted, free of charge, to any person obtaining

\* a copy of this software and associated documentation files (the

\* "Software"), to deal in the Software without restriction, including

\* without limitation the rights to use, copy, modify, merge, publish,

\* distribute, and/or sell copies of the Software, and to permit persons

\* to whom the Software is furnished to do so, provided that the above

\* copyright notice(s) and this permission notice appear in all copies of

\* the Software and that both the above copyright notice(s) and this

\* permission notice appear in supporting documentation.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT

\* OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR

\* HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY  
\* SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER  
\* RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF  
\* CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN  
\* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

\*

\* Except as contained in this notice, the name of a copyright holder  
\* shall not be used in advertising or otherwise to promote the sale, use  
\* or other dealings in this Software without prior written authorization  
\* of the copyright holder.

\*

\*/

/\*

\* Copyright (c) 2004-2008 QOS.ch

\* All rights reserved.

\*

\* Permission is hereby granted, free of charge, to any person obtaining  
\* a copy of this software and associated documentation files (the  
\* "Software"), to deal in the Software without restriction, including  
\* without limitation the rights to use, copy, modify, merge, publish,  
\* distribute, sublicense, and/or sell copies of the Software, and to  
\* permit persons to whom the Software is furnished to do so, subject to  
\* the following conditions:

\*

\* The above copyright notice and this permission notice shall be  
\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE  
\* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION  
\* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION  
\* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*/

## 1.832 slf4j-log4j12 1.6.1

### 1.832.1 Available under license :

/\*

\* Copyright (c) 2004-2005 SLF4J.ORG

\* Copyright (c) 2004-2005 QOS.ch

\*

\* All rights reserved.

\*

\* Permission is hereby granted, free of charge, to any person obtaining

\* a copy of this software and associated documentation files (the

\* "Software"), to deal in the Software without restriction, including  
\* without limitation the rights to use, copy, modify, merge, publish,  
\* distribute, and/or sell copies of the Software, and to permit persons  
\* to whom the Software is furnished to do so, provided that the above  
\* copyright notice(s) and this permission notice appear in all copies of  
\* the Software and that both the above copyright notice(s) and this  
\* permission notice appear in supporting documentation.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT  
\* OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR  
\* HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY  
\* SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER  
\* RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF  
\* CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN  
\* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

\*

\* Except as contained in this notice, the name of a copyright holder  
\* shall not be used in advertising or otherwise to promote the sale, use  
\* or other dealings in this Software without prior written authorization  
\* of the copyright holder.

\*

\*/

/\*

\* Copyright (c) 2004-2008 QOS.ch

\* All rights reserved.

\*

\* Permission is hereby granted, free of charge, to any person obtaining  
\* a copy of this software and associated documentation files (the  
\* "Software"), to deal in the Software without restriction, including  
\* without limitation the rights to use, copy, modify, merge, publish,  
\* distribute, sublicense, and/or sell copies of the Software, and to  
\* permit persons to whom the Software is furnished to do so, subject to  
\* the following conditions:

\*

\* The above copyright notice and this permission notice shall be  
\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE  
\* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION  
\* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION  
\* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*/

# 1.833 slide 1.1.6

## 1.833.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.834 SnakeYAML 1.6

## 1.834.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,



or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.835 snappy-java 1.1.1.6

## 1.836 sntp 1.0.9

### 1.836.1 Available under license :

Copyright (c) 2012-2014, Eran Hammer and other contributors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of any contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/sntp/graphs/contributors>

# 1.837 sntp 0.2.4

## 1.837.1 Available under license :

Copyright (c) 2012-2013, Eran Hammer.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Eran Hammer nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ERAN HAMMER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.838 socket.io 0.9.16

## 1.838.1 Available under license :

(The MIT License)

Copyright (c) 2011 Guillermo Rauch <guillermo@learnboost.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.839 socket.io-client 0.9.16

### 1.839.1 Available under license :

Copyright (c) 2011 Arnout Kazemier,3rd-Eden

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2011 Guillermo Rauch <guillermo@learnboost.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/\*

Adobe Systems Incorporated(r) Source Code License Agreement  
Copyright(c) 2005 Adobe Systems Incorporated. All rights reserved.

Please read this Source Code License Agreement carefully before using the source code.

Adobe Systems Incorporated grants to you a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license, to reproduce, prepare derivative works of, publicly display, publicly perform, and distribute this source code and such derivative works in source or object code form without any attribution requirements.

The name "Adobe Systems Incorporated" must not be used to endorse or promote products derived from the source code without prior written permission.

You agree to indemnify, hold harmless and defend Adobe Systems Incorporated from and against any loss, damage, claims or lawsuits, including attorney's fees that arise or result from your use or distribution of the source code.

THIS SOURCE CODE IS PROVIDED "AS IS" AND "WITH ALL FAULTS", WITHOUT ANY TECHNICAL SUPPORT OR ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. ALSO, THERE IS NO WARRANTY OF NON-INFRINGEMENT, TITLE OR QUIET ENJOYMENT. IN NO EVENT SHALL MACROMEDIA OR ITS SUPPLIERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOURCE CODE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

## 1.840 source-map 0.4.4

## 1.840.1 Available under license :

Copyright (c) 2009-2011, Mozilla Foundation and contributors  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the names of the Mozilla Foundation nor the names of project contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.841 source-map 0.1.43

### 1.841.1 Available under license :

Copyright (c) 2009-2011, Mozilla Foundation and contributors  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the names of the Mozilla Foundation nor the names of project contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.842 source-map-support 0.2.10

### 1.842.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Evan Wallace

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.843 Spark 1.6.0

## 1.843.1 Available under license :

```
# A. HISTORY OF THE SOFTWARE
# =====
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.
#
# All Python releases are Open Source (see http://www.opensource.org for
# the Open Source Definition). Historically, most, but not all, Python
# releases have also been GPL-compatible; the table below summarizes
# the various releases.
#
# Release      Derived  Year   Owner   GPL-
# from                compatible? (1)
#
# 0.9.0 thru 1.2      1991-1995  CWI     yes
# 1.3 thru 1.5.2 1.2      1995-1999  CNRI    yes
# 1.6            1.5.2    2000     CNRI    no
# 2.0            1.6      2000     BeOpen.com no
# 1.6.1          1.6      2001     CNRI    yes (2)
# 2.1            2.0+1.6.1 2001     PSF     no
# 2.0.1          2.0+1.6.1 2001     PSF     yes
# 2.1.1          2.1+2.0.1 2001     PSF     yes
# 2.2            2.1.1    2001     PSF     yes
# 2.1.2          2.1.1    2002     PSF     yes
# 2.1.3          2.1.2    2002     PSF     yes
# 2.2.1          2.2      2002     PSF     yes
# 2.2.2          2.2.1    2002     PSF     yes
# 2.2.3          2.2.2    2003     PSF     yes
# 2.3            2.2.2    2002-2003 PSF     yes
```

```

# 2.3.1      2.3      2002-2003 PSF      yes
# 2.3.2      2.3.1    2002-2003 PSF      yes
# 2.3.3      2.3.2    2002-2003 PSF      yes
# 2.3.4      2.3.3    2004      PSF      yes
# 2.3.5      2.3.4    2005      PSF      yes
# 2.4        2.3      2004      PSF      yes
# 2.4.1      2.4      2005      PSF      yes
# 2.4.2      2.4.1    2005      PSF      yes
# 2.4.3      2.4.2    2006      PSF      yes
# 2.4.4      2.4.3    2006      PSF      yes
# 2.5        2.4      2006      PSF      yes
# 2.5.1      2.5      2007      PSF      yes
# 2.5.2      2.5.1    2008      PSF      yes
# 2.5.3      2.5.2    2008      PSF      yes
# 2.6        2.5      2008      PSF      yes
# 2.6.1      2.6      2008      PSF      yes
# 2.6.2      2.6.1    2009      PSF      yes
# 2.6.3      2.6.2    2009      PSF      yes
# 2.6.4      2.6.3    2009      PSF      yes
# 2.6.5      2.6.4    2010      PSF      yes
# 2.7        2.6      2010      PSF      yes

```

```
#
```

```
# Footnotes:
```

```
#
```

```

# (1) GPL-compatible doesn't mean that we're distributing Python under
# the GPL. All Python licenses, unlike the GPL, let you distribute
# a modified version without making your changes open source. The
# GPL-compatible licenses make it possible to combine Python with
# other software that is released under the GPL; the others don't.

```

```
#
```

```

# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
# because its license has a choice of law clause. According to
# CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
# is "not incompatible" with the GPL.

```

```
#
```

```

# Thanks to the many outside volunteers who have worked under Guido's
# direction to make these releases possible.

```

```
#
```

```
#
```

```
# B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
```

```
# =====
```

```
#
```

```
# PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
```

```
# -----
```

```
#
```

```

# 1. This LICENSE AGREEMENT is between the Python Software Foundation
# ("PSF"), and the Individual or Organization ("Licensee") accessing and
# otherwise using this software ("Python") in source or binary form and

```



# its associated documentation.  
#  
# 2. Subject to the terms and conditions of this License Agreement, PSF hereby  
# grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,  
# analyze, test, perform and/or display publicly, prepare derivative works,  
# distribute, and otherwise use Python alone or in any derivative version,  
# provided, however, that PSF's License Agreement and PSF's notice of copyright,  
# i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,  
# 2011, 2012, 2013 Python Software Foundation; All Rights Reserved" are retained  
# in Python alone or in any derivative version prepared by Licensee.  
#  
# 3. In the event Licensee prepares a derivative work that is based on  
# or incorporates Python or any part thereof, and wants to make  
# the derivative work available to others as provided herein, then  
# Licensee hereby agrees to include in any such work a brief summary of  
# the changes made to Python.  
#  
# 4. PSF is making Python available to Licensee on an "AS IS"  
# basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. Nothing in this License Agreement shall be deemed to create any  
# relationship of agency, partnership, or joint venture between PSF and  
# Licensee. This License Agreement does not grant permission to use PSF  
# trademarks or trade name in a trademark sense to endorse or promote  
# products or services of Licensee, or any third party.  
#  
# 8. By copying, installing or otherwise using Python, Licensee  
# agrees to be bound by the terms and conditions of this License  
# Agreement.  
#  
#  
# BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0  
# -----  
#  
# BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1  
#

# 1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an  
# office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the  
# Individual or Organization ("Licensee") accessing and otherwise using  
# this software in source or binary form and its associated  
# documentation ("the Software").  
#  
# 2. Subject to the terms and conditions of this BeOpen Python License  
# Agreement, BeOpen hereby grants Licensee a non-exclusive,  
# royalty-free, world-wide license to reproduce, analyze, test, perform  
# and/or display publicly, prepare derivative works, distribute, and  
# otherwise use the Software alone or in any derivative version,  
# provided, however, that the BeOpen Python License is retained in the  
# Software, alone or in any derivative version prepared by Licensee.  
#  
# 3. BeOpen is making the Software available to Licensee on an "AS IS"  
# basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE  
# SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS  
# AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY  
# DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 5. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 6. This License Agreement shall be governed by and interpreted in all  
# respects by the law of the State of California, excluding conflict of  
# law provisions. Nothing in this License Agreement shall be deemed to  
# create any relationship of agency, partnership, or joint venture  
# between BeOpen and Licensee. This License Agreement does not grant  
# permission to use BeOpen trademarks or trade names in a trademark  
# sense to endorse or promote products or services of Licensee, or any  
# third party. As an exception, the "BeOpen Python" logos available at  
# <http://www.pythonlabs.com/logos.html> may be used according to the  
# permissions granted on that web page.  
#  
# 7. By copying, installing or otherwise using the software, Licensee  
# agrees to be bound by the terms and conditions of this License  
# Agreement.  
#  
#  
# CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1  
# -----  
#

# 1. This LICENSE AGREEMENT is between the Corporation for National  
# Research Initiatives, having an office at 1895 Preston White Drive,  
# Reston, VA 20191 ("CNRI"), and the Individual or Organization  
# ("Licensee") accessing and otherwise using Python 1.6.1 software in  
# source or binary form and its associated documentation.  
#  
# 2. Subject to the terms and conditions of this License Agreement, CNRI  
# hereby grants Licensee a nonexclusive, royalty-free, world-wide  
# license to reproduce, analyze, test, perform and/or display publicly,  
# prepare derivative works, distribute, and otherwise use Python 1.6.1  
# alone or in any derivative version, provided, however, that CNRI's  
# License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)  
# 1995-2001 Corporation for National Research Initiatives; All Rights  
# Reserved" are retained in Python 1.6.1 alone or in any derivative  
# version prepared by Licensee. Alternately, in lieu of CNRI's License  
# Agreement, Licensee may substitute the following text (omitting the  
# quotes): "Python 1.6.1 is made available subject to the terms and  
# conditions in CNRI's License Agreement. This Agreement together with  
# Python 1.6.1 may be located on the Internet using the following  
# unique, persistent identifier (known as a handle): 1895.22/1013. This  
# Agreement may also be obtained from a proxy server on the Internet  
# using the following URL: <http://hdl.handle.net/1895.22/1013>".  
#  
# 3. In the event Licensee prepares a derivative work that is based on  
# or incorporates Python 1.6.1 or any part thereof, and wants to make  
# the derivative work available to others as provided herein, then  
# Licensee hereby agrees to include in any such work a brief summary of  
# the changes made to Python 1.6.1.  
#  
# 4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"  
# basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. This License Agreement shall be governed by the federal  
# intellectual property law of the United States, including without  
# limitation the federal copyright law, and, to the extent such  
# U.S. federal law does not apply, by the law of the Commonwealth of

```
# Virginia, excluding Virginia's conflict of law provisions.
# Notwithstanding the foregoing, with regard to derivative works based
# on Python 1.6.1 that incorporate non-separable material that was
# previously distributed under the GNU General Public License (GPL), the
# law of the Commonwealth of Virginia shall govern this License
# Agreement only as to issues arising under or with respect to
# Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this
# License Agreement shall be deemed to create any relationship of
# agency, partnership, or joint venture between CNRI and Licensee. This
# License Agreement does not grant permission to use CNRI trademarks or
# trade name in a trademark sense to endorse or promote products or
# services of Licensee, or any third party.
#
# 8. By clicking on the "ACCEPT" button where indicated, or by copying,
# installing or otherwise using Python 1.6.1, Licensee agrees to be
# bound by the terms and conditions of this License Agreement.
#
# ACCEPT
#
#
# CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
# -----
#
# Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
# The Netherlands. All rights reserved.
#
# Permission to use, copy, modify, and distribute this software and its
# documentation for any purpose and without fee is hereby granted,
# provided that the above copyright notice appear in all copies and that
# both that copyright notice and this permission notice appear in
# supporting documentation, and that the name of Stichting Mathematisch
# Centrum or CWI not be used in advertising or publicity pertaining to
# distribution of the software without specific, written prior
# permission.
#
# STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
# THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
# FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
# FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
The MIT License (MIT)
```

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the

rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997-2007 Stuart Langridge

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache Spark

Copyright 2014 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

=====  
Common Development and Distribution License 1.0  
=====

The following components are provided under the Common Development and Distribution License 1.0. See project link for details.

(CDDL 1.0) Glassfish Jasper (org.mortbay.jetty:jsp-2.1:6.1.14 - <http://jetty.mortbay.org/project/modules/jsp-2.1>)  
(CDDL 1.0) Servlet Specification 2.5 API (org.mortbay.jetty:servlet-api-2.5:6.1.14 - <http://jetty.mortbay.org/project/modules/servlet-api-2.5>)  
(COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0) (GNU General Public Library) Streaming API for XML (javax.xml.stream:stax-api:1.0-2 - no url defined)  
(Common Development and Distribution License (CDDL) v1.0) JavaBeans Activation Framework (JAF) (javax.activation:activation:1.1 - <http://java.sun.com/products/javabeans/jaf/index.jsp>)

=====  
Common Development and Distribution License 1.1  
=====

The following components are provided under the Common Development and Distribution License 1.1. See project link for details.

(CDDL 1.1) (GPL2 w/ CPE) JAXB API bundle for GlassFish V3 (javax.xml.bind:jaxb-api:2.2.2 - <https://jaxb.dev.java.net/>)  
(CDDL 1.1) (GPL2 w/ CPE) JAXB RI (com.sun.xml.bind:jaxb-impl:2.2.3-1 - <http://jaxb.java.net/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.8 - <https://jersey.dev.java.net/jersey-core/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.9 - <https://jersey.java.net/jersey-core/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-guice (com.sun.jersey.contribs:jersey-guice:1.9 - <https://jersey.java.net/jersey-contribs/jersey-guice/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.8 - <https://jersey.dev.java.net/jersey-json/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.9 - <https://jersey.java.net/jersey-json/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.8 - <https://jersey.dev.java.net/jersey-server/>)  
(CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.9 - <https://jersey.java.net/jersey->

server/)

=====  
Common Public License 1.0  
=====

The following components are provided under the Common Public 1.0 License. See project link for details.

- (Common Public License Version 1.0) JUnit (junit:junit-dep:4.10 - <http://junit.org>)
- (Common Public License Version 1.0) JUnit (junit:junit:3.8.1 - <http://junit.org>)
- (Common Public License Version 1.0) JUnit (junit:junit:4.8.2 - <http://junit.org>)

=====  
Eclipse Public License 1.0  
=====

The following components are provided under the Eclipse Public License 1.0. See project link for details.

- (Eclipse Public License - Version 1.0) mqtt-client (org.eclipse.paho:mqtt-client:0.4.0 - <http://www.eclipse.org/paho/mqtt-client>)
- (Eclipse Public License v1.0) Eclipse JDT Core (org.eclipse.jdt:core:3.1.1 - <http://www.eclipse.org/jdt/>)

=====  
Mozilla Public License 1.0  
=====

The following components are provided under the Mozilla Public License 1.0. See project link for details.

- (GPL) (LGPL) (MPL) JTransforms (com.github.rwl:jtransforms:2.4.0 - <http://sourceforge.net/projects/jtransforms/>)
- (Mozilla Public License Version 1.1) jamon-runtime (org.jamon:jamon-runtime:2.3.1 - <http://www.jamon.org/jamon-runtime/>)

=====  
NOTICE files  
=====

The following NOTICES are pertain to software distributed with this project.

```
// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for  
// -----
```

Apache Avro

Copyright 2009-2013 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache Commons Codec  
Copyright 2002-2009 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

-----  
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from <http://aspell.sourceforge.net/test/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson ([kevina@gnu.org](mailto:kevina@gnu.org)). Verbatim copying  
and distribution of this entire article is permitted in any medium,  
provided this notice is preserved.

-----  
Apache HttpComponents HttpClient  
Copyright 1999-2011 The Apache Software Foundation

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

Apache HttpComponents HttpCore  
Copyright 2005-2011 The Apache Software Foundation

Curator Recipes  
Copyright 2011-2014 The Apache Software Foundation

Curator Framework  
Copyright 2011-2014 The Apache Software Foundation

Curator Client  
Copyright 2011-2014 The Apache Software Foundation

Apache Geronimo  
Copyright 2003-2008 The Apache Software Foundation

Activation 1.1  
Copyright 2003-2007 The Apache Software Foundation

Apache Commons Lang  
Copyright 2001-2014 The Apache Software Foundation

This product includes software from the Spring Framework,



under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)

Apache log4j  
Copyright 2007 The Apache Software Foundation

# Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflate) codec.

## Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE file.

## Credit

Library has been written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

Objenesis  
Copyright 2006-2009 Joe Walnes, Henri Tremblay, Leonardo Mesquita

Apache Commons Net  
Copyright 2001-2010 The Apache Software Foundation

The Netty Project  
=====

Please visit the Netty web site for more information:

- \* <http://netty.io/>

Copyright 2011 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

\* LICENSE:

\* [license/LICENSE.jsr166y.txt](#) (Public Domain)

\* HOMEPAGE:

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.base64.txt](#) (Public Domain)

\* HOMEPAGE:

\* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.jzlib.txt](#) (BSD Style License)

\* HOMEPAGE:

\* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.protobuf.txt](#) (New BSD License)

\* HOMEPAGE:

\* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java,

which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.slf4j.txt (MIT License)
- \* HOMEPAGE:
  - \* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.common-logging.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.log4j.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://logging.apache.org/log4j/>

This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.jboss-logging.txt (GNU LGPL 2.1)
- \* HOMEPAGE:
  - \* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.felix.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://felix.apache.org/>

This product optionally depends on 'Webbit', a Java event based WebSocket and HTTP server:

- \* LICENSE:
  - \* license/LICENSE.webbit.txt (BSD License)
- \* HOMEPAGE:
  - \* <https://github.com/joewalnes/webbit>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

mesos  
Copyright 2014 The Apache Software Foundation

Apache Thrift  
Copyright 2006-2010 The Apache Software Foundation.

Apache Ant  
Copyright 1999-2013 The Apache Software Foundation

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

Apache Commons IO  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons Math  
Copyright 2001-2013 The Apache Software Foundation

=====  
The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.  
=====

The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>) Copyright © 2003-2009 SciPy Developers.

=====

The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.

=====

This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory. The LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general includes software translated from the lmdcr, lmpar and qrsolv Fortran routines from the Minpack package Minpack Copyright Notice (1999) University of Chicago. All rights reserved

=====

The GraggBulirschStoerIntegrator class in package org.apache.commons.math3.ode.nonstiff includes software translated from the odex Fortran routine developed by E. Hairer and G. Wanner. Original source copyright: Copyright (c) 2004, Ernst Hairer

=====

The EigenDecompositionImpl class in package org.apache.commons.math3.linear includes software translated from some LAPACK Fortran routines. Original source copyright: Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

=====

The MersenneTwister class in package org.apache.commons.math3.random includes software translated from the 2002-01-26 version of the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji Nishimura. Original source copyright: Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved

=====

The LocalizedFormatsTest class in the unit tests is an adapted version of the OrekitMessagesTest class from the orekit library distributed under the

terms of the Apache 2 licence. Original source copyright:  
Copyright 2010 CS Systèmes d'Information

---

The HermiteInterpolator class and its corresponding test have been imported from the orekit library distributed under the terms of the Apache 2 licence. Original source copyright:  
Copyright 2010-2012 CS Systèmes d'Information

---

The creation of the package "o.a.c.m.analysis.integration.gauss" was inspired by an original code donated by Sbastien Brisard.

---

The complete text of licenses and disclaimers associated with the the original sources enumerated above at the time of code translation are in the LICENSE.txt file.

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation

Apache Commons Compress  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons CLI  
Copyright 2001-2009 The Apache Software Foundation

Google Guice - Extensions - Servlet  
Copyright 2006-2011 Google, Inc.

Google Guice - Core Library  
Copyright 2006-2011 Google, Inc.

Apache Jakarta HttpClient  
Copyright 1999-2007 The Apache Software Foundation

Apache Hive  
Copyright 2008-2013 The Apache Software Foundation

This product includes software developed by The Apache Software

Foundation (<http://www.apache.org/>).

This product includes software developed by The JDBM Project (<http://jdbm.sourceforge.net/>).

This product includes/uses ANTLR (<http://www.antlr.org/>),  
Copyright (c) 2003-2011, Terrence Parr.

This product includes/uses StringTemplate (<http://www.stringtemplate.org/>),  
Copyright (c) 2011, Terrence Parr.

This product includes/uses ASM (<http://asm.ow2.org/>),  
Copyright (c) 2000-2007 INRIA, France Telecom.

This product includes/uses org.json (<http://www.json.org/java/index.html>),  
Copyright (c) 2002 JSON.org

This product includes/uses JLine (<http://jline.sourceforge.net/>),  
Copyright (c) 2002-2006, Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SQLLine (<http://sqlline.sourceforge.net/>),  
Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SLF4J (<http://www.slf4j.org/>),  
Copyright (c) 2004-2010 QOS.ch

This product includes/uses Bootstrap (<http://twitter.github.com/bootstrap/>),  
Copyright (c) 2012 Twitter, Inc.

This product includes/uses Glyphicons (<http://glyphicons.com/>),  
Copyright (c) 2010 - 2012 Jan KovarĀ-k

This product includes DataNucleus (<http://www.datanucleus.org/>)  
Copyright 2008-2008 DataNucleus

This product includes Guava (<http://code.google.com/p/guava-libraries/>)  
Copyright (C) 2006 Google Inc.

This product includes JavaEWAH (<http://code.google.com/p/javaewah/>)  
Copyright (C) 2011 Google Inc.

Apache Commons Pool  
Copyright 1999-2009 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the DataNucleus distribution. ==  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Erik Bengtson  
Andy Jefferson

=====  
This product has included contributions from some individuals,  
including the following:  
=====

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Joerg von Frantzius  
Thomas Marti  
Barry Haddow  
Marco Schulze  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Marcus Mennemeier  
Xuan Baldauf  
Eric Sultan

=====  
This product also includes software developed by the TJDO project  
(<http://tjdo.sourceforge.net/>).  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Andy Jefferson  
Erik Bengtson  
Joerg von Frantzius  
Marco Schulze

=====  
This product has included contributions from some individuals,  
=====



including the following:

=====  
Barry Haddow  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Anton Troshin (Timesten)  
=====

=====  
This product also includes software developed by the Apache Commons project  
(<http://commons.apache.org/>).  
=====

Apache Java Data Objects (JDO)  
Copyright 2005-2006 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the Apache Derby distribution. ==  
=====

Apache Derby  
Copyright 2004-2008 The Apache Software Foundation

Portions of Derby were originally developed by  
International Business Machines Corporation and are  
licensed to the Apache Software Foundation under the  
"Software Grant and Corporate Contribution License Agreement",  
informally known as the "Derby CLA".  
The following copyright notice(s) were affixed to portions of the code  
with which this file is now or was at one time distributed  
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally  
developed by the National Institute of Standards and Technology (NIST),  
an agency of the United States Department of Commerce, and adapted by  
International Business Machines Corporation in accordance with the NIST  
Software Acknowledgment and Redistribution document at  
[http://www.itl.nist.gov/div897/ctg/sql\\_form.htm](http://www.itl.nist.gov/div897/ctg/sql_form.htm)

Apache Commons Collections  
Copyright 2001-2008 The Apache Software Foundation

Apache Commons Configuration  
Copyright 2001-2008 The Apache Software Foundation

Apache Jakarta Commons Digester  
Copyright 2001-2006 The Apache Software Foundation

Apache Commons BeanUtils  
Copyright 2000-2008 The Apache Software Foundation

Apache Avro Mapred API  
Copyright 2009-2013 The Apache Software Foundation

Apache Avro IPC  
Copyright 2009-2013 The Apache Software Foundation

Vis.js  
Copyright 2010-2015 Almende B.V.

Vis.js is dual licensed under both

\* The Apache 2.0 License  
<http://www.apache.org/licenses/LICENSE-2.0>

and

\* The MIT License  
<http://opensource.org/licenses/MIT>

Vis.js may be distributed under either license.

Vis.js uses and redistributes the following third-party libraries:

- component-emitter  
<https://github.com/component/emitter>  
The MIT License

- hammer.js  
<http://hammerjs.github.io/>  
The MIT License

- moment.js  
<http://momentjs.com/>  
The MIT License

- keycharm  
<https://github.com/AlexDM0/keycharm>  
The MIT License

---

The CSS style for the navigation sidebar of the documentation was originally submitted by Āscar NĀjĵera for the scikit-learn project. The scikit-learn project is distributed under the 3-Clause BSD license.

---

Hive Contrib  
Copyright 2014 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Spark

Copyright 2014 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

=====  
Common Development and Distribution License 1.0  
=====

The following components are provided under the Common Development and Distribution License 1.0. See project link for details.

(CDDL 1.0) Glassfish Jasper (org.mortbay.jetty:jsp-2.1:6.1.14 - <http://jetty.mortbay.org/project/modules/jsp-2.1>)

(CDDL 1.0) Servlet Specification 2.5 API (org.mortbay.jetty:servlet-api-2.5:6.1.14 - <http://jetty.mortbay.org/project/modules/servlet-api-2.5>)

(COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0) (GNU General Public Library) Streaming API for XML (javax.xml.stream:stax-api:1.0-2 - no url defined)

(Common Development and Distribution License (CDDL) v1.0) JavaBeans Activation Framework (JAF) (javax.activation:activation:1.1 - <http://java.sun.com/products/javabeans/jaf/index.jsp>)

=====  
Common Development and Distribution License 1.1  
=====

The following components are provided under the Common Development and Distribution License 1.1. See project link for details.

- (CDDL 1.1) (GPL2 w/ CPE) JAXB API bundle for GlassFish V3 (javax.xml.bind:jaxb-api:2.2.2 - <https://jaxb.dev.java.net/>)
- (CDDL 1.1) (GPL2 w/ CPE) JAXB RI (com.sun.xml.bind:jaxb-impl:2.2.3-1 - <http://jaxb.java.net/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.8 - <https://jersey.dev.java.net/jersey-core/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.9 - <https://jersey.java.net/jersey-core/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-guice (com.sun.jersey.contribs:jersey-guice:1.9 - <https://jersey.java.net/jersey-contribs/jersey-guice/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.8 - <https://jersey.dev.java.net/jersey-json/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.9 - <https://jersey.java.net/jersey-json/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.8 - <https://jersey.dev.java.net/jersey-server/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.9 - <https://jersey.java.net/jersey-server/>)

=====  
Common Public License 1.0  
=====

The following components are provided under the Common Public 1.0 License. See project link for details.

- (Common Public License Version 1.0) JUnit (junit:junit-dep:4.10 - <http://junit.org>)
- (Common Public License Version 1.0) JUnit (junit:junit:3.8.1 - <http://junit.org>)
- (Common Public License Version 1.0) JUnit (junit:junit:4.8.2 - <http://junit.org>)

=====  
Eclipse Public License 1.0  
=====

The following components are provided under the Eclipse Public License 1.0. See project link for details.

- (Eclipse Public License - Version 1.0) mqtt-client (org.eclipse.paho:mqtt-client:0.4.0 - <http://www.eclipse.org/paho/mqtt-client>)
- (Eclipse Public License v1.0) Eclipse JDT Core (org.eclipse.jdt:core:3.1.1 - <http://www.eclipse.org/jdt/>)

=====  
Mozilla Public License 1.0  
=====

The following components are provided under the Mozilla Public License 1.0. See project link for details.



(GPL) (LGPL) (MPL) JTransforms (com.github.rwl:jtransforms:2.4.0 -  
<http://sourceforge.net/projects/jtransforms/>)

(Mozilla Public License Version 1.1) jamon-runtime (org.jamon:jamon-runtime:2.3.1 -  
<http://www.jamon.org/jamon-runtime/>)

=====  
NOTICE files  
=====

The following NOTICEs are pertinent to software distributed with this project.

// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for  
// -----

Apache Avro  
Copyright 2009-2013 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache Commons Codec  
Copyright 2002-2009 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

-----  
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from <http://aspell.sourceforge.net/test/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevin@gnu.org). Verbatim copying  
and distribution of this entire article is permitted in any medium,  
provided this notice is preserved.

-----  
Apache HttpComponents HttpClient  
Copyright 1999-2011 The Apache Software Foundation

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

Apache HttpComponents HttpCore  
Copyright 2005-2011 The Apache Software Foundation

Curator Recipes  
Copyright 2011-2014 The Apache Software Foundation

Curator Framework  
Copyright 2011-2014 The Apache Software Foundation

Curator Client  
Copyright 2011-2014 The Apache Software Foundation

Apache Geronimo  
Copyright 2003-2008 The Apache Software Foundation

Activation 1.1  
Copyright 2003-2007 The Apache Software Foundation

Apache Commons Lang  
Copyright 2001-2014 The Apache Software Foundation

This product includes software from the Spring Framework,  
under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)

Apache log4j  
Copyright 2007 The Apache Software Foundation

# Compress LZF

This library contains efficient implementation of LZF compression format,  
as well as additional helper classes that build on JDK-provided gzip (deflate)  
codec.

## Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE file.

## Credit

Library has been written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)).  
It was started at Ning, inc., as an official Open Source process used by  
platform backend, but after initial versions has been developed outside of  
Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor

fixes; these can be found from file "VERSION.txt" in SCM.

Objenesis

Copyright 2006-2009 Joe Walnes, Henri Tremblay, Leonardo Mesquita

Apache Commons Net

Copyright 2001-2010 The Apache Software Foundation

The Netty Project

=====

Please visit the Netty web site for more information:

\* <http://netty.io/>

Copyright 2011 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

\* LICENSE:

\* <license/LICENSE.jsr166y.txt> (Public Domain)

\* HOMEPAGE:

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

\* LICENSE:

\* <license/LICENSE.base64.txt> (Public Domain)

\* HOMEPAGE:

\* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.jzlib.txt](#) (BSD Style License)

\* HOMEPAGE:

\* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.protobuf.txt](#) (New BSD License)

\* HOMEPAGE:

\* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.slf4j.txt](#) (MIT License)

\* HOMEPAGE:

\* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.commons-logging.txt](#) (Apache License 2.0)

\* HOMEPAGE:

\* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.log4j.txt](#) (Apache License 2.0)

\* HOMEPAGE:

\* <http://logging.apache.org/log4j/>

This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.jboss-logging.txt](#) (GNU LGPL 2.1)

\* HOMEPAGE:

\* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.felix.txt](#) (Apache License 2.0)

\* HOMEPAGE:

\* <http://felix.apache.org/>

This product optionally depends on 'Webbit', a Java event based WebSocket and HTTP server:

\* LICENSE:

\* [license/LICENSE.webbit.txt](#) (BSD License)

\* HOMEPAGE:

\* <https://github.com/joewalnes/webbit>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

mesos

Copyright 2014 The Apache Software Foundation

Apache Thrift

Copyright 2006-2010 The Apache Software Foundation.

Apache Ant  
Copyright 1999-2013 The Apache Software Foundation

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

Apache Commons IO  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons Math  
Copyright 2001-2013 The Apache Software Foundation

=====  
The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.  
=====

=====  
The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>)  
Copyright 2003-2009 SciPy Developers.  
=====

=====  
The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.  
=====

=====  
This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.  
The LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general includes software translated from the lmdr, lmpar and qrsolv Fortran routines from the Minpack package  
Minpack Copyright Notice (1999) University of Chicago. All rights reserved  
=====

=====  
The GraggBulirschStoerIntegrator class in package org.apache.commons.math3.ode.nonstiff includes software translated from the odex Fortran routine developed by E. Hairer and G. Wanner.  
=====

Original source copyright:  
Copyright (c) 2004, Ernst Hairer

---

The EigenDecompositionImpl class in package  
org.apache.commons.math3.linear includes software translated  
from some LAPACK Fortran routines. Original source copyright:  
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

---

The MersenneTwister class in package org.apache.commons.math3.random  
includes software translated from the 2002-01-26 version of  
the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji  
Nishimura. Original source copyright:  
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,  
All rights reserved

---

The LocalizedFormatsTest class in the unit tests is an adapted version of  
the OrekitMessagesTest class from the orekit library distributed under the  
terms of the Apache 2 licence. Original source copyright:  
Copyright 2010 CS Systmes d'Information

---

The HermiteInterpolator class and its corresponding test have been imported from  
the orekit library distributed under the terms of the Apache 2 licence. Original  
source copyright:  
Copyright 2010-2012 CS Systmes d'Information

---

The creation of the package "o.a.c.m.analysis.integration.gauss" was inspired  
by an original code donated by Sbastien Brisard.

---

The complete text of licenses and disclaimers associated with the the original  
sources enumerated above at the time of code translation are in the LICENSE.txt  
file.

This product currently only contains code developed by authors  
of specific components, as identified by the source code files;  
if such notes are missing files have been created by  
Tatu Saloranta.

For additional credits (generally to people who reported problems)  
see CREDITS file.

Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation

Apache Commons Compress  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons CLI  
Copyright 2001-2009 The Apache Software Foundation

Google Guice - Extensions - Servlet  
Copyright 2006-2011 Google, Inc.

Google Guice - Core Library  
Copyright 2006-2011 Google, Inc.

Apache Jakarta HttpClient  
Copyright 1999-2007 The Apache Software Foundation

Apache Hive  
Copyright 2008-2013 The Apache Software Foundation

This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software developed by The JDBM Project (<http://jdbm.sourceforge.net/>).

This product includes/uses ANTLR (<http://www.antlr.org/>),  
Copyright (c) 2003-2011, Terrence Parr.

This product includes/uses StringTemplate (<http://www.stringtemplate.org/>),  
Copyright (c) 2011, Terrence Parr.

This product includes/uses ASM (<http://asm.ow2.org/>),  
Copyright (c) 2000-2007 INRIA, France Telecom.

This product includes/uses org.json (<http://www.json.org/java/index.html>),  
Copyright (c) 2002 JSON.org

This product includes/uses JLine (<http://jline.sourceforge.net/>),  
Copyright (c) 2002-2006, Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SQLLine (<http://sqlline.sourceforge.net/>),  
Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SLF4J (<http://www.slf4j.org/>),  
Copyright (c) 2004-2010 QOS.ch

This product includes/uses Bootstrap (<http://twitter.github.com/bootstrap/>),  
Copyright (c) 2012 Twitter, Inc.



This product includes/uses Glyphicons (<http://glyphicons.com/>),  
Copyright (c) 2010 - 2012 Jan Kovark

This product includes DataNucleus (<http://www.datanucleus.org/>)  
Copyright 2008-2008 DataNucleus

This product includes Guava (<http://code.google.com/p/guava-libraries/>)  
Copyright (C) 2006 Google Inc.

This product includes JavaEWAH (<http://code.google.com/p/javaewah/>)  
Copyright (C) 2011 Google Inc.

Apache Commons Pool  
Copyright 1999-2009 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the DataNucleus distribution. ==  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Erik Bengtson  
Andy Jefferson

=====  
This product has included contributions from some individuals,  
including the following:  
=====

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Joerg von Frantzius  
Thomas Marti  
Barry Haddow  
Marco Schulze  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo

Marcus Mennemeier  
Xuan Baldauf  
Eric Sultan

=====  
This product also includes software developed by the TJDO project  
(<http://tjdo.sourceforge.net/>).  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Andy Jefferson  
Erik Bengtson  
Joerg von Frantzius  
Marco Schulze

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Barry Haddow  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Anton Troshin (Timesten)

=====  
This product also includes software developed by the Apache Commons project  
(<http://commons.apache.org/>).  
=====

Apache Java Data Objects (JDO)  
Copyright 2005-2006 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the Apache Derby distribution. ==  
=====

Apache Derby  
Copyright 2004-2008 The Apache Software Foundation

Portions of Derby were originally developed by International Business Machines Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Derby CLA". The following copyright notice(s) were affixed to portions of the code with which this file is now or was at one time distributed and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally developed by the National Institute of Standards and Technology (NIST), an agency of the United States Department of Commerce, and adapted by International Business Machines Corporation in accordance with the NIST Software Acknowledgment and Redistribution document at [http://www.itl.nist.gov/div897/ctg/sql\\_form.htm](http://www.itl.nist.gov/div897/ctg/sql_form.htm)

Apache Commons Collections  
Copyright 2001-2008 The Apache Software Foundation

Apache Commons Configuration  
Copyright 2001-2008 The Apache Software Foundation

Apache Jakarta Commons Digester  
Copyright 2001-2006 The Apache Software Foundation

Apache Commons BeanUtils  
Copyright 2000-2008 The Apache Software Foundation

Apache Avro Mapred API  
Copyright 2009-2013 The Apache Software Foundation

Apache Avro IPC  
Copyright 2009-2013 The Apache Software Foundation

Vis.js  
Copyright 2010-2015 Almende B.V.

Vis.js is dual licensed under both

\* The Apache 2.0 License  
<http://www.apache.org/licenses/LICENSE-2.0>

and

\* The MIT License  
<http://opensource.org/licenses/MIT>

Vis.js may be distributed under either license.

Vis.js uses and redistributes the following third-party libraries:

- component-emitter  
<https://github.com/component/emitter>  
The MIT License

- hammer.js  
<http://hammerjs.github.io/>  
The MIT License

- moment.js  
<http://momentjs.com/>  
The MIT License

- keycharm  
<https://github.com/AlexDM0/keycharm>  
The MIT License

=====  
The CSS style for the navigation sidebar of the documentation was originally submitted by scar Njera for the scikit-learn project. The scikit-learn project is distributed under the 3-Clause BSD license.  
=====

```
#!/usr/bin/env bash
```

```
#  
# Licensed to the Apache Software Foundation (ASF) under one or more  
# contributor license agreements. See the NOTICE file distributed with  
# this work for additional information regarding copyright ownership.  
# The ASF licenses this file to You under the Apache License, Version 2.0  
# (the "License"); you may not use this file except in compliance with  
# the License. You may obtain a copy of the License at  
#  
# http://www.apache.org/licenses/LICENSE-2.0  
#  
# Unless required by applicable law or agreed to in writing, software  
# distributed under the License is distributed on an "AS IS" BASIS,  
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
# See the License for the specific language governing permissions and  
# limitations under the License.
```

```

#

acquire_rat_jar () {

    URL="http://repo1.maven.org/maven2/org/apache/rat/apache-rat/${RAT_VERSION}/apache-rat-
    ${RAT_VERSION}.jar"

    JAR="$rat_jar"

    # Download rat launch jar if it hasn't been downloaded yet
    if [ ! -f "$JAR" ]; then
        # Download
        printf "Attempting to fetch rat\n"
        JAR_DL="${JAR}.part"
        if [ $(command -v curl) ]; then
            curl -L --silent "${URL}" > "$JAR_DL" && mv "$JAR_DL" "$JAR"
        elif [ $(command -v wget) ]; then
            wget --quiet ${URL} -O "$JAR_DL" && mv "$JAR_DL" "$JAR"
        else
            printf "You do not have curl or wget installed, please install rat manually.\n"
            exit -1
        fi
    fi

    unzip -tq "$JAR" &> /dev/null
    if [ $? -ne 0 ]; then
        # We failed to download
        rm "$JAR"
        printf "Our attempt to download rat locally to ${JAR} failed. Please install rat manually.\n"
        exit -1
    fi
}

# Go to the Spark project root directory
FWDIR="$(cd "`dirname "$0"`/..; pwd)"
cd "$FWDIR"

if test -x "$JAVA_HOME/bin/java"; then
    declare java_cmd="$JAVA_HOME/bin/java"
else
    declare java_cmd=java
fi

export RAT_VERSION=0.10
export rat_jar="$FWDIR/lib/apache-rat-${RAT_VERSION}.jar"
mkdir -p "$FWDIR/lib"

```

```

[[ -f "$rat_jar" ]] || acquire_rat_jar || {
    echo "Download failed. Obtain the rat jar manually and place it at $rat_jar"
    exit 1
}

$java_cmd -jar "$rat_jar" -E "$FWDIR"/.rat-excludes -d "$FWDIR" > rat-results.txt

if [ $? -ne 0 ]; then
    echo "RAT exited abnormally"
    exit 1
fi

ERRORS="$(cat rat-results.txt | grep -e "?")"

if test ! -z "$ERRORS"; then
    echo "Could not find Apache license headers in the following files:"
    echo "$ERRORS"
    exit 1
else
    echo -e "RAT checks passed."
fi

```

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2008, Nathan Sweet  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012-2013 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ScalaCheck LICENSE

Copyright (c) 2007-2015, Rickard Nilsson  
All rights reserved.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Copyright (c) 2010-2015, Michael Bostock  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2015 The University of Tennessee. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.

Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is" and any express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. in no event shall the copyright owner or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

Copyright (c) 2009-2012, Stefan Zeiger  
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

// Generated from <http://www.opensource.org/licenses/bsd-license.php>

Copyright (c) 2011, Paul Phillips.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2011-2012 Erik Osheim, Tom Switzer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in

the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/\*

\* Javolution - Java(tm) Solution for Real-Time and Embedded Systems

\* Copyright (c) 2012, Javolution (<http://javolution.org/>)

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions are met:

\*

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\*

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\*

\* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

\* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

\* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

\* A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR

\* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,

\* EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,

\* PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR

\* PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

\* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING

\* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS

\* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

[ ParaNamer used to be 'Public Domain', but since it includes a small piece of ASM it is now the same license as that: BSD ]

Copyright (c) 2006 Paul Hammant & ThoughtWorks Inc

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012, Regents of the University of California.

Copyright (c) 2009 PiCloud, Inc. <<http://www.picloud.com>> \_.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of California, Berkeley nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2006-2008 Mitch Garnaat <http://garnaat.org/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009, Mikio L. Braun and contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the Technische Universitt Berlin nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
SNAPTREE LICENSE

Copyright (c) 2009-2012 Stanford University, unless otherwise specified.  
All rights reserved.

This software was developed by the Pervasive Parallelism Laboratory of Stanford University, California, USA.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Stanford University nor the names of its contributors may be used to endorse or promote products derived

from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2002-2013 EPFL

Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
  
- Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Samuel Halliday

Copyright (c) 1992-2011 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.



Copyright (c) 2000-2011 The University of California Berkeley. All rights reserved.

Copyright (c) 2006-2011 The University of Colorado Denver. All rights reserved.

## \$COPYRIGHTS

Additional copyrights may follow

## \$HEADERS

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to all parts of Protocol Buffers except the following:

- Atomicops support for generic gcc, located in

src/google/protobuf/stubs/atomicops\_internals\_generic\_gcc.h.

This file is copyrighted by Red Hat Inc.

- Atomicops support for AIX/POWER, located in  
src/google/protobuf/stubs/atomicops\_internals\_aix.h.  
This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

jBCrypt is subject to the following license:

/\*

- \* Copyright (c) 2006 Damien Miller <djm@mindrot.org>

\*

- \* Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

\*

\* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES  
\* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF  
\* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR  
\* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES  
\* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN  
\* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF  
\* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.  
\*/

[The BSD License]

Copyright (c) 2012 Terence Parr and Sam Harwell

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, University of Tartu

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997-2007 Stuart Langridge

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2004-2013 QOS.ch

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Pyro - Python Remote Objects

Software License, copyright, and disclaimer

Pyro is Copyright (c) by Irmien de Jong (irmien@razorvine.net).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This is the "MIT Software License" which is OSI-certified, and GPL-compatible.  
See <http://www.opensource.org/licenses/mit-license.php>  
Copyright 2003-2005, Ernst de Haan <[wfe.dehaan@gmail.com](mailto:wfe.dehaan@gmail.com)>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2011, Douban Inc. <<http://www.douban.com/>>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of the Douban Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a



cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====  
Apache Spark Subcomponents:

The Apache Spark project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

=====  
For heapq (pyspark/heapq3.py):  
=====

See license/LICENSE-heapq.txt

=====  
For SnapTree:  
=====

See license/LICENSE-SnapTree.txt

=====  
For jbcrypt:

---

---

See license/LICENSE-jbencrypt.txt

---

---

## BSD-style licenses

---

---

The following components are provided under a BSD-style license. See project link for details.

The text of each license is also included at licenses/LICENSE-[project].txt.

(BSD 3 Clause) netlib core (com.github.fommil.netlib:core:1.1.2 - <https://github.com/fommil/netlib-java/core>)  
(BSD 3 Clause) JPMML-Model (org.jpmmml:pmml-model:1.1.15 - <https://github.com/jpmmml/jpmmml-model>)  
(BSD 3-clause style license) jblas (org.jblas:jblas:1.2.4 - <http://jblas.org/>)  
(BSD License) AntLR Parser Generator (antlr:antlr:2.7.7 - <http://www.antlr.org/>)  
(BSD licence) ANTLR ST4 4.0.4 (org.antlr:ST4:4.0.4 - <http://www.stringtemplate.org>)  
(BSD licence) ANTLR StringTemplate (org.antlr:stringtemplate:3.2.1 - <http://www.stringtemplate.org>)  
(BSD License) Javolution (javolution:javolution:5.5.1 - <http://javolution.org>)  
(BSD) JLine (jline:jline:0.9.94 - <http://jline.sourceforge.net>)  
(BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.3 - <http://paranamer.codehaus.org/paranamer>)  
(BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.6 - <http://paranamer.codehaus.org/paranamer>)  
(BSD 3 Clause) Scala (<http://www.scala-lang.org/download/#License>)  
    (Interpreter classes (all .scala files in repl/src/main/scala  
    except for Main.Scala, SparkHelper.scala and ExecutorClassLoader.scala),  
    and for SerializableMapWrapper in JavaUtils.scala)  
(BSD-like) Scala Actors library (org.scala-lang:scala-actors:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scala Compiler (org.scala-lang:scala-compiler:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scala Compiler (org.scala-lang:scala-reflect:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scala Library (org.scala-lang:scala-library:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scalap (org.scala-lang:scalap:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-style) scalacheck (org.scalacheck:scalacheck\_2.10:1.10.0 - <http://www.scalacheck.org>)  
(BSD-style) spire (org.spire-math:spire\_2.10:0.7.1 - <http://spire-math.org>)  
(BSD-style) spire-macros (org.spire-math:spire-macros\_2.10:0.7.1 - <http://spire-math.org>)  
(New BSD License) Kryo (com.esotericsoftware.kryo:kryo:2.21 - <http://code.google.com/p/kryo/>)  
(New BSD License) MinLog (com.esotericsoftware.minlog:minlog:1.2 - <http://code.google.com/p/minlog/>)  
(New BSD License) ReflectASM (com.esotericsoftware.reflectasm:reflectasm:1.07 - <http://code.google.com/p/reflectasm/>)  
(New BSD license) Protocol Buffer Java API (com.google.protobuf:protobuf-java:2.5.0 - <http://code.google.com/p/protobuf/>)  
(New BSD license) Protocol Buffer Java API (org.spark-project.protobuf:protobuf-java:2.4.1-shaded - <http://code.google.com/p/protobuf/>)  
(The BSD License) Fortran to Java ARPACK (net.sourceforge.f2j:arpack\_combined\_all:0.1 - <http://f2j.sourceforge.net>)  
(The BSD License) xmlenc Library (xmlenc:xmlenc:0.52 - <http://xmlenc.sourceforge.net>)  
(The New BSD License) Py4J (net.sf.py4j:py4j:0.9 - <http://py4j.sourceforge.net/>)  
(Two-clause BSD-style license) JUnit-Interface (com.novocode:junit-interface:0.10 -

<http://github.com/szeiger/junit-interface/>  
(BSD licence) sbt and sbt-launch-lib.bash  
(BSD 3 Clause) d3.min.js (<https://github.com/mbostock/d3/blob/master/LICENSE>)  
(BSD 3 Clause) DPark (<https://github.com/douban/dpark/blob/master/LICENSE>)  
(BSD 3 Clause) CloudPickle (<https://github.com/cloudpipe/cloudpickle/blob/master/LICENSE>)

---

---

## MIT licenses

---

---

The following components are provided under the MIT License. See project link for details.

The text of each license is also included at licenses/LICENSE-[project].txt.

(MIT License) JCL 1.1.1 implemented over SLF4J (org.slf4j:jcl-over-slf4j:1.7.5 - <http://www.slf4j.org>)  
(MIT License) JUL to SLF4J bridge (org.slf4j:jul-to-slf4j:1.7.5 - <http://www.slf4j.org>)  
(MIT License) SLF4J API Module (org.slf4j:slf4j-api:1.7.5 - <http://www.slf4j.org>)  
(MIT License) SLF4J LOG4J-12 Binding (org.slf4j:slf4j-log4j12:1.7.5 - <http://www.slf4j.org>)  
(MIT License) pyrolite (org.spark-project:pyrolite:2.0.1 - <http://pythonhosted.org/Pyro4/>)  
(MIT License) scopt (com.github.scopt:scopt\_2.10:3.2.0 - <https://github.com/scopt/scopt>)  
(The MIT License) Mockito (org.mockito:mockito-core:1.9.5 - <http://www.mockito.org>)  
(MIT License) jquery (<https://jquery.org/license/>)  
(MIT License) AnchorJS (<https://github.com/bryanbraun/anchorjs>)  
(MIT License) graphlib-dot (<https://github.com/cpetitt/graphlib-dot>)  
(MIT License) dagre-d3 (<https://github.com/cpetitt/dagre-d3>)  
(MIT License) sortable (<https://github.com/stuartlangridge/sortable>)  
(MIT License) boto (<https://github.com/boto/boto/blob/develop/LICENSE>)

# 1.844 Spark 1.4.1

## 1.844.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,



work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Hive HCatalog Core  
Copyright 2014 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache Spark  
Copyright 2014 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

=====  
Common Development and Distribution License 1.0  
=====

The following components are provided under the Common Development and Distribution License 1.0. See project link for details.

- (CDDL 1.0) Glassfish Jasper (org.mortbay.jetty:jsp-2.1:6.1.14 - <http://jetty.mortbay.org/project/modules/jsp-2.1>)
- (CDDL 1.0) Servlet Specification 2.5 API (org.mortbay.jetty:servlet-api-2.5:6.1.14 - <http://jetty.mortbay.org/project/modules/servlet-api-2.5>)
- (COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0) (GNU General Public Library) Streaming API for XML (javax.xml.stream:stax-api:1.0-2 - no url defined)
- (Common Development and Distribution License (CDDL) v1.0) JavaBeans Activation Framework (JAF) (javax.activation:activation:1.1 - <http://java.sun.com/products/javabeans/jaf/index.jsp>)

=====  
Common Development and Distribution License 1.1  
=====

The following components are provided under the Common Development and Distribution License 1.1. See project link for details.

- (CDDL 1.1) (GPL2 w/ CPE) JAXB API bundle for GlassFish V3 (javax.xml.bind:jaxb-api:2.2.2 - <https://jaxb.dev.java.net/>)
- (CDDL 1.1) (GPL2 w/ CPE) JAXB RI (com.sun.xml.bind:jaxb-impl:2.2.3-1 - <http://jaxb.java.net/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.8 - <https://jersey.dev.java.net/jersey-core/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.9 - <https://jersey.java.net/jersey-core/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-guice (com.sun.jersey.contribs:jersey-guice:1.9 - <https://jersey.java.net/jersey-contribs/jersey-guice/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.8 - <https://jersey.dev.java.net/jersey-json/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.9 - <https://jersey.java.net/jersey-json/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.8 - <https://jersey.dev.java.net/jersey-server/>)
- (CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.9 - <https://jersey.java.net/jersey-server/>)

=====  
Common Public License 1.0  
=====

The following components are provided under the Common Public 1.0 License. See project link for details.

(Common Public License Version 1.0) JUnit (junit:junit-dep:4.10 - <http://junit.org>)  
(Common Public License Version 1.0) JUnit (junit:junit:3.8.1 - <http://junit.org>)  
(Common Public License Version 1.0) JUnit (junit:junit:4.8.2 - <http://junit.org>)

=====  
Eclipse Public License 1.0  
=====

The following components are provided under the Eclipse Public License 1.0. See project link for details.

(Eclipse Public License - Version 1.0) mqtt-client (org.eclipse.paho:mqtt-client:0.4.0 - <http://www.eclipse.org/paho/mqtt-client>)  
(Eclipse Public License v1.0) Eclipse JDT Core (org.eclipse.jdt:core:3.1.1 - <http://www.eclipse.org/jdt/>)

=====  
Mozilla Public License 1.0  
=====

The following components are provided under the Mozilla Public License 1.0. See project link for details.

(GPL) (LGPL) (MPL) JTransforms (com.github.rwl:jtransforms:2.4.0 - <http://sourceforge.net/projects/jtransforms/>)  
(Mozilla Public License Version 1.1) jamon-runtime (org.jamon:jamon-runtime:2.3.1 - <http://www.jamon.org/jamon-runtime/>)

=====  
NOTICE files  
=====

The following NOTICES are pertain to software distributed with this project.

// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for  
// -----

Apache Avro  
Copyright 2009-2013 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache Commons Codec  
Copyright 2002-2009 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

-----  
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from <http://aspell.sourceforge.net/test/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson ([kevina@gnu.org](mailto:kevina@gnu.org)). Verbatim copying  
and distribution of this entire article is permitted in any medium,  
provided this notice is preserved.

-----  
Apache HttpComponents HttpClient  
Copyright 1999-2011 The Apache Software Foundation

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

Apache HttpComponents HttpCore  
Copyright 2005-2011 The Apache Software Foundation

Curator Recipes  
Copyright 2011-2014 The Apache Software Foundation

Curator Framework  
Copyright 2011-2014 The Apache Software Foundation

Curator Client  
Copyright 2011-2014 The Apache Software Foundation

Apache Geronimo  
Copyright 2003-2008 The Apache Software Foundation

Activation 1.1  
Copyright 2003-2007 The Apache Software Foundation

Apache Commons Lang  
Copyright 2001-2014 The Apache Software Foundation

This product includes software from the Spring Framework,  
under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)

Apache log4j  
Copyright 2007 The Apache Software Foundation

# Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflat) codec.

## ## Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE file.

## ## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

## Objenesis

Copyright 2006-2009 Joe Walnes, Henri Tremblay, Leonardo Mesquita

## Apache Commons Net

Copyright 2001-2010 The Apache Software Foundation

## The Netty Project

=====

Please visit the Netty web site for more information:

- \* <http://netty.io/>

Copyright 2011 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations

under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

\* LICENSE:

\* license/LICENSE.jsr166y.txt (Public Domain)

\* HOMEPAGE:

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

\* LICENSE:

\* license/LICENSE.base64.txt (Public Domain)

\* HOMEPAGE:

\* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

\* LICENSE:

\* license/LICENSE.jzlib.txt (BSD Style License)

\* HOMEPAGE:

\* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

\* LICENSE:

\* license/LICENSE.protobuf.txt (New BSD License)

\* HOMEPAGE:

\* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

\* LICENSE:

\* license/LICENSE.slf4j.txt (MIT License)

\* HOMEPAGE:

\* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

\* LICENSE:

\* license/LICENSE.commons-logging.txt (Apache License 2.0)

\* HOMEPAGE:

\* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

\* LICENSE:

\* license/LICENSE.log4j.txt (Apache License 2.0)

\* HOMEPAGE:

\* <http://logging.apache.org/log4j/>

This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

\* LICENSE:

\* license/LICENSE.jboss-logging.txt (GNU LGPL 2.1)

\* HOMEPAGE:

\* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

\* LICENSE:

\* license/LICENSE.felix.txt (Apache License 2.0)

\* HOMEPAGE:

\* <http://felix.apache.org/>

This product optionally depends on 'Webbit', a Java event based WebSocket and HTTP server:

\* LICENSE:

\* license/LICENSE.webbit.txt (BSD License)

\* HOMEPAGE:

\* <https://github.com/joewalnes/webbit>

## # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

mesos

Copyright 2014 The Apache Software Foundation

Apache Thrift

Copyright 2006-2010 The Apache Software Foundation.

Apache Ant

Copyright 1999-2013 The Apache Software Foundation

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

Apache Commons IO

Copyright 2002-2012 The Apache Software Foundation

Apache Commons Math

Copyright 2001-2013 The Apache Software Foundation

=====  
The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.  
=====

The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>)  
Copyright 2003-2009 SciPy Developers.  
=====



The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.

=====

This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.  
The LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general includes software translated from the lmdcr, lmpar and qrsolv Fortran routines from the Minpack package  
Minpack Copyright Notice (1999) University of Chicago. All rights reserved

=====

The GraggBulirschStoerIntegrator class in package org.apache.commons.math3.ode.nonstiff includes software translated from the odex Fortran routine developed by E. Hairer and G. Wanner.  
Original source copyright:  
Copyright (c) 2004, Ernst Hairer

=====

The EigenDecompositionImpl class in package org.apache.commons.math3.linear includes software translated from some LAPACK Fortran routines. Original source copyright:  
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

=====

The MersenneTwister class in package org.apache.commons.math3.random includes software translated from the 2002-01-26 version of the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji Nishimura. Original source copyright:  
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,  
All rights reserved

=====

The LocalizedFormatsTest class in the unit tests is an adapted version of the OrekitMessagesTest class from the orekit library distributed under the terms of the Apache 2 licence. Original source copyright:  
Copyright 2010 CS Systmes d'Information

=====

The HermiteInterpolator class and its corresponding test have been imported from the orekit library distributed under the terms of the Apache 2 licence. Original source copyright:

The creation of the package "o.a.c.m.analysis.integration.gauss" was inspired by an original code donated by Sbastien Brisard.

---

The complete text of licenses and disclaimers associated with the the original sources enumerated above at the time of code translation are in the LICENSE.txt file.

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation

Apache Commons Compress  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons CLI  
Copyright 2001-2009 The Apache Software Foundation

Google Guice - Extensions - Servlet  
Copyright 2006-2011 Google, Inc.

Google Guice - Core Library  
Copyright 2006-2011 Google, Inc.

Apache Jakarta HttpClient  
Copyright 1999-2007 The Apache Software Foundation

Apache Hive  
Copyright 2008-2013 The Apache Software Foundation

This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software developed by The JDBM Project (<http://jdbm.sourceforge.net/>).

This product includes/uses ANTLR (<http://www.antlr.org/>),  
Copyright (c) 2003-2011, Terrence Parr.

This product includes/uses StringTemplate (<http://www.stringtemplate.org/>),  
Copyright (c) 2011, Terrence Parr.

This product includes/uses ASM (<http://asm.ow2.org/>),  
Copyright (c) 2000-2007 INRIA, France Telecom.

This product includes/uses org.json (<http://www.json.org/java/index.html>),  
Copyright (c) 2002 JSON.org

This product includes/uses JLine (<http://jline.sourceforge.net/>),  
Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>.

This product includes/uses SQLLine (<http://sqlline.sourceforge.net>),  
Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux <mwp1@cornell.edu>.

This product includes/uses SLF4J (<http://www.slf4j.org/>),  
Copyright (c) 2004-2010 QOS.ch

This product includes/uses Bootstrap (<http://twitter.github.com/bootstrap/>),  
Copyright (c) 2012 Twitter, Inc.

This product includes/uses Glyphicons (<http://glyphicons.com/>),  
Copyright (c) 2010 - 2012 Jan Kovark

This product includes DataNucleus (<http://www.datanucleus.org/>)  
Copyright 2008-2008 DataNucleus

This product includes Guava (<http://code.google.com/p/guava-libraries/>)  
Copyright (C) 2006 Google Inc.

This product includes JavaEWAH (<http://code.google.com/p/javaewah/>)  
Copyright (C) 2011 Google Inc.

Apache Commons Pool  
Copyright 1999-2009 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the DataNucleus distribution. ==  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Erik Bengtson  
Andy Jefferson

=====  
This product has included contributions from some individuals,  
including the following:  
=====

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Joerg von Frantzius  
Thomas Marti  
Barry Haddow  
Marco Schulze  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Marcus Mennemeier  
Xuan Baldauf  
Eric Sultan

=====  
This product also includes software developed by the TJDO project  
(<http://tjdo.sourceforge.net/>).  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Andy Jefferson  
Erik Bengtson  
Joerg von Frantzius  
Marco Schulze

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Barry Haddow  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves

Martin Taal  
Tony Lai  
Roland Szabo  
Anton Troshin (Timesten)

=====  
This product also includes software developed by the Apache Commons project  
(<http://commons.apache.org/>).  
=====

Apache Java Data Objects (JDO)  
Copyright 2005-2006 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the Apache Derby distribution. ==  
=====

Apache Derby  
Copyright 2004-2008 The Apache Software Foundation

Portions of Derby were originally developed by  
International Business Machines Corporation and are  
licensed to the Apache Software Foundation under the  
"Software Grant and Corporate Contribution License Agreement",  
informally known as the "Derby CLA".  
The following copyright notice(s) were affixed to portions of the code  
with which this file is now or was at one time distributed  
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally  
developed by the National Institute of Standards and Technology (NIST),  
an agency of the United States Department of Commerce, and adapted by  
International Business Machines Corporation in accordance with the NIST  
Software Acknowledgment and Redistribution document at  
[http://www.itl.nist.gov/div897/ctg/sql\\_form.htm](http://www.itl.nist.gov/div897/ctg/sql_form.htm)

Apache Commons Collections  
Copyright 2001-2008 The Apache Software Foundation

Apache Commons Configuration  
Copyright 2001-2008 The Apache Software Foundation

Apache Jakarta Commons Digester

Copyright 2001-2006 The Apache Software Foundation

Apache Commons BeanUtils

Copyright 2000-2008 The Apache Software Foundation

Apache Avro Mapred API

Copyright 2009-2013 The Apache Software Foundation

Apache Avro IPC

Copyright 2009-2013 The Apache Software Foundation

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
#!/usr/bin/env bash
```

```
#
```

```
# Licensed to the Apache Software Foundation (ASF) under one or more  
# contributor license agreements. See the NOTICE file distributed with  
# this work for additional information regarding copyright ownership.  
# The ASF licenses this file to You under the Apache License, Version 2.0  
# (the "License"); you may not use this file except in compliance with  
# the License. You may obtain a copy of the License at
```

```
#
```

```
# http://www.apache.org/licenses/LICENSE-2.0
```

```

#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
#

acquire_rat_jar () {

    URL="http://repo1.maven.org/maven2/org/apache/rat/apache-rat/${RAT_VERSION}/apache-rat-
    ${RAT_VERSION}.jar"

    JAR="$rat_jar"

    # Download rat launch jar if it hasn't been downloaded yet
    if [ ! -f "$JAR" ]; then
        # Download
        printf "Attempting to fetch rat\n"
        JAR_DL="${JAR}.part"
        if [ $(command -v curl) ]; then
            curl -L --silent "${URL}" > "$JAR_DL" && mv "$JAR_DL" "$JAR"
        elif [ $(command -v wget) ]; then
            wget --quiet "${URL}" -O "$JAR_DL" && mv "$JAR_DL" "$JAR"
        else
            printf "You do not have curl or wget installed, please install rat manually.\n"
            exit -1
        fi
    fi

    unzip -tq "$JAR" &> /dev/null
    if [ $? -ne 0 ]; then
        # We failed to download
        rm "$JAR"
        printf "Our attempt to download rat locally to ${JAR} failed. Please install rat manually.\n"
        exit -1
    fi
}

# Go to the Spark project root directory
FWDIR=$(cd "" && pwd)
cd "$FWDIR"

if test -x "$JAVA_HOME/bin/java"; then
    declare java_cmd="$JAVA_HOME/bin/java"
else
    declare java_cmd=java

```

```

fi

export RAT_VERSION=0.10
export rat_jar="$FWDIR"/lib/apache-rat-{$RAT_VERSION}.jar
mkdir -p "$FWDIR"/lib

[[ -f "$rat_jar" ]] || acquire_rat_jar || {
    echo "Download failed. Obtain the rat jar manually and place it at $rat_jar"
    exit 1
}

$java_cmd -jar "$rat_jar" -E "$FWDIR"/.rat-excludes -d "$FWDIR" > rat-results.txt

if [ $? -ne 0 ]; then
    echo "RAT exited abnormally"
    exit 1
fi

ERRORS="$(cat rat-results.txt | grep -e "?")"

if test ! -z "$ERRORS"; then
    echo "Could not find Apache license headers in the following files:"
    echo "$ERRORS"
    exit 1
else
    echo -e "RAT checks passed."
fi

```

Apache License  
 Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the



outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====  
Apache Spark Subcomponents:

The Apache Spark project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

=====  
For the Boto EC2 library (ec2/third\_party/boto\*.zip):  
=====

Copyright (c) 2006-2008 Mitch Garnaat <http://garnaat.org/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====  
For CloudPickle (pyspark/cloudpickle.py):  
=====

Copyright (c) 2012, Regents of the University of California.  
Copyright (c) 2009 `PiCloud, Inc. <<http://www.picloud.com>>`\_.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of California, Berkeley nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For Py4J (python/lib/py4j-0.8.2.1-src.zip)  
=====

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For DPark join code (python/pyspark/join.py):  
=====

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of the Douban Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For heapq (pyspark/heapq3.py):  
=====

```
# A. HISTORY OF THE SOFTWARE
# =====
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
```

# In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

# All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| # Release from   | Derived   | Year      | Owner      | GPL-compatible? (1) |
|------------------|-----------|-----------|------------|---------------------|
| # 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes                 |
| # 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes                 |
| # 1.6            | 1.5.2     | 2000      | CNRI       | no                  |
| # 2.0            | 1.6       | 2000      | BeOpen.com | no                  |
| # 1.6.1          | 1.6       | 2001      | CNRI       | yes (2)             |
| # 2.1            | 2.0+1.6.1 | 2001      | PSF        | no                  |
| # 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes                 |
| # 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes                 |
| # 2.2            | 2.1.1     | 2001      | PSF        | yes                 |
| # 2.1.2          | 2.1.1     | 2002      | PSF        | yes                 |
| # 2.1.3          | 2.1.2     | 2002      | PSF        | yes                 |
| # 2.2.1          | 2.2       | 2002      | PSF        | yes                 |
| # 2.2.2          | 2.2.1     | 2002      | PSF        | yes                 |
| # 2.2.3          | 2.2.2     | 2003      | PSF        | yes                 |
| # 2.3            | 2.2.2     | 2002-2003 | PSF        | yes                 |
| # 2.3.1          | 2.3       | 2002-2003 | PSF        | yes                 |
| # 2.3.2          | 2.3.1     | 2002-2003 | PSF        | yes                 |
| # 2.3.3          | 2.3.2     | 2002-2003 | PSF        | yes                 |
| # 2.3.4          | 2.3.3     | 2004      | PSF        | yes                 |
| # 2.3.5          | 2.3.4     | 2005      | PSF        | yes                 |
| # 2.4            | 2.3       | 2004      | PSF        | yes                 |
| # 2.4.1          | 2.4       | 2005      | PSF        | yes                 |
| # 2.4.2          | 2.4.1     | 2005      | PSF        | yes                 |
| # 2.4.3          | 2.4.2     | 2006      | PSF        | yes                 |
| # 2.4.4          | 2.4.3     | 2006      | PSF        | yes                 |
| # 2.5            | 2.4       | 2006      | PSF        | yes                 |
| # 2.5.1          | 2.5       | 2007      | PSF        | yes                 |
| # 2.5.2          | 2.5.1     | 2008      | PSF        | yes                 |
| # 2.5.3          | 2.5.2     | 2008      | PSF        | yes                 |
| # 2.6            | 2.5       | 2008      | PSF        | yes                 |
| # 2.6.1          | 2.6       | 2008      | PSF        | yes                 |



```
# 2.6.2      2.6.1    2009    PSF     yes
# 2.6.3      2.6.2    2009    PSF     yes
# 2.6.4      2.6.3    2009    PSF     yes
# 2.6.5      2.6.4    2010    PSF     yes
# 2.7        2.6      2010    PSF     yes
```

```
#
```

```
# Footnotes:
```

```
#
```

```
# (1) GPL-compatible doesn't mean that we're distributing Python under
# the GPL. All Python licenses, unlike the GPL, let you distribute
# a modified version without making your changes open source. The
# GPL-compatible licenses make it possible to combine Python with
# other software that is released under the GPL; the others don't.
```

```
#
```

```
# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
# because its license has a choice of law clause. According to
# CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
# is "not incompatible" with the GPL.
```

```
#
```

```
# Thanks to the many outside volunteers who have worked under Guido's
# direction to make these releases possible.
```

```
#
```

```
#
```

```
# B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
```

```
# =====
```

```
#
```

```
# PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
```

```
# -----
```

```
#
```

```
# 1. This LICENSE AGREEMENT is between the Python Software Foundation
# ("PSF"), and the Individual or Organization ("Licensee") accessing and
# otherwise using this software ("Python") in source or binary form and
# its associated documentation.
```

```
#
```

```
# 2. Subject to the terms and conditions of this License Agreement, PSF hereby
# grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,
# analyze, test, perform and/or display publicly, prepare derivative works,
# distribute, and otherwise use Python alone or in any derivative version,
# provided, however, that PSF's License Agreement and PSF's notice of copyright,
# i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,
# 2011, 2012, 2013 Python Software Foundation; All Rights Reserved" are retained
# in Python alone or in any derivative version prepared by Licensee.
```

```
#
```

```
# 3. In the event Licensee prepares a derivative work that is based on
# or incorporates Python or any part thereof, and wants to make
# the derivative work available to others as provided herein, then
# Licensee hereby agrees to include in any such work a brief summary of
# the changes made to Python.
```

#  
# 4. PSF is making Python available to Licensee on an "AS IS"  
# basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. Nothing in this License Agreement shall be deemed to create any  
# relationship of agency, partnership, or joint venture between PSF and  
# Licensee. This License Agreement does not grant permission to use PSF  
# trademarks or trade name in a trademark sense to endorse or promote  
# products or services of Licensee, or any third party.  
#  
# 8. By copying, installing or otherwise using Python, Licensee  
# agrees to be bound by the terms and conditions of this License  
# Agreement.  
#  
#  
# BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0  
# -----  
#  
# BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1  
#  
# 1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an  
# office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the  
# Individual or Organization ("Licensee") accessing and otherwise using  
# this software in source or binary form and its associated  
# documentation ("the Software").  
#  
# 2. Subject to the terms and conditions of this BeOpen Python License  
# Agreement, BeOpen hereby grants Licensee a non-exclusive,  
# royalty-free, world-wide license to reproduce, analyze, test, perform  
# and/or display publicly, prepare derivative works, distribute, and  
# otherwise use the Software alone or in any derivative version,  
# provided, however, that the BeOpen Python License is retained in the  
# Software, alone or in any derivative version prepared by Licensee.  
#  
# 3. BeOpen is making the Software available to Licensee on an "AS IS"  
# basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR

# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.

#

# 4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE  
# SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS  
# AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY  
# DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

#

# 5. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.

#

# 6. This License Agreement shall be governed by and interpreted in all  
# respects by the law of the State of California, excluding conflict of  
# law provisions. Nothing in this License Agreement shall be deemed to  
# create any relationship of agency, partnership, or joint venture  
# between BeOpen and Licensee. This License Agreement does not grant  
# permission to use BeOpen trademarks or trade names in a trademark  
# sense to endorse or promote products or services of Licensee, or any  
# third party. As an exception, the "BeOpen Python" logos available at  
# <http://www.pythonlabs.com/logos.html> may be used according to the  
# permissions granted on that web page.

#

# 7. By copying, installing or otherwise using the software, Licensee  
# agrees to be bound by the terms and conditions of this License  
# Agreement.

#

#

# CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

# -----

#

# 1. This LICENSE AGREEMENT is between the Corporation for National  
# Research Initiatives, having an office at 1895 Preston White Drive,  
# Reston, VA 20191 ("CNRI"), and the Individual or Organization  
# ("Licensee") accessing and otherwise using Python 1.6.1 software in  
# source or binary form and its associated documentation.

#

# 2. Subject to the terms and conditions of this License Agreement, CNRI  
# hereby grants Licensee a nonexclusive, royalty-free, world-wide  
# license to reproduce, analyze, test, perform and/or display publicly,  
# prepare derivative works, distribute, and otherwise use Python 1.6.1  
# alone or in any derivative version, provided, however, that CNRI's  
# License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)  
# 1995-2001 Corporation for National Research Initiatives; All Rights  
# Reserved" are retained in Python 1.6.1 alone or in any derivative  
# version prepared by Licensee. Alternately, in lieu of CNRI's License  
# Agreement, Licensee may substitute the following text (omitting the

# quotes): "Python 1.6.1 is made available subject to the terms and  
# conditions in CNRI's License Agreement. This Agreement together with  
# Python 1.6.1 may be located on the Internet using the following  
# unique, persistent identifier (known as a handle): 1895.22/1013. This  
# Agreement may also be obtained from a proxy server on the Internet  
# using the following URL: <http://hdl.handle.net/1895.22/1013>".  
#  
# 3. In the event Licensee prepares a derivative work that is based on  
# or incorporates Python 1.6.1 or any part thereof, and wants to make  
# the derivative work available to others as provided herein, then  
# Licensee hereby agrees to include in any such work a brief summary of  
# the changes made to Python 1.6.1.  
#  
# 4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"  
# basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. This License Agreement shall be governed by the federal  
# intellectual property law of the United States, including without  
# limitation the federal copyright law, and, to the extent such  
# U.S. federal law does not apply, by the law of the Commonwealth of  
# Virginia, excluding Virginia's conflict of law provisions.  
# Notwithstanding the foregoing, with regard to derivative works based  
# on Python 1.6.1 that incorporate non-separable material that was  
# previously distributed under the GNU General Public License (GPL), the  
# law of the Commonwealth of Virginia shall govern this License  
# Agreement only as to issues arising under or with respect to  
# Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this  
# License Agreement shall be deemed to create any relationship of  
# agency, partnership, or joint venture between CNRI and Licensee. This  
# License Agreement does not grant permission to use CNRI trademarks or  
# trade name in a trademark sense to endorse or promote products or  
# services of Licensee, or any third party.  
#  
# 8. By clicking on the "ACCEPT" button where indicated, or by copying,  
# installing or otherwise using Python 1.6.1, Licensee agrees to be  
# bound by the terms and conditions of this License Agreement.

```
#
# ACCEPT
#
#
# CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
# -----
#
# Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
# The Netherlands. All rights reserved.
#
# Permission to use, copy, modify, and distribute this software and its
# documentation for any purpose and without fee is hereby granted,
# provided that the above copyright notice appear in all copies and that
# both that copyright notice and this permission notice appear in
# supporting documentation, and that the name of Stichting Mathematisch
# Centrum or CWI not be used in advertising or publicity pertaining to
# distribution of the software without specific, written prior
# permission.
#
# STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
# THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
# FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
# FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

```
=====
For sortable (core/src/main/resources/org/apache/spark/ui/static/sortable.js):
=====
```

Copyright (c) 1997-2007 Stuart Langridge

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====  
For d3 (core/src/main/resources/org/apache/spark/ui/static/d3.min.js):  
=====

Copyright (c) 2010-2015, Michael Bostock  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this  
list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice,  
this list of conditions and the following disclaimer in the documentation  
and/or other materials provided with the distribution.

\* The name Michael Bostock may not be used to endorse or promote products  
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"  
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT,  
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,  
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY  
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING  
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,  
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For Scala Interpreter classes (all .scala files in repl/src/main/scala  
except for Main.Scala, SparkHelper.scala and ExecutorClassLoader.scala),  
and for SerializableMapWrapper in JavaUtils.scala:  
=====

Copyright (c) 2002-2013 EPFL  
Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,  
this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
=====
For sbt and sbt-launch-lib.bash in sbt/
=====
```

```
// Generated from http://www.opensource.org/licenses/bsd-license.php
Copyright (c) 2011, Paul Phillips.
All rights reserved.
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For SnapTree:  
=====

## SNAPTREE LICENSE

Copyright (c) 2009-2012 Stanford University, unless otherwise specified.  
All rights reserved.

This software was developed by the Pervasive Parallelism Laboratory of Stanford University, California, USA.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Stanford University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For Timsort (core/src/main/java/org/apache/spark/util/collection/TimSort.java):



=====  
Copyright (C) 2008 The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

=====  
For TestTimSort (core/src/test/java/org/apache/spark/util/collection/TestTimSort.java):  
=====

Copyright (C) 2015 Stijn de Gouw

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

=====  
For LimitedInputStream  
(network/common/src/main/java/org/apache/spark/network/util/LimitedInputStream.java):  
=====

Copyright (C) 2007 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and

limitations under the License.

=====  
For vis.js (core/src/main/resources/org/apache/spark/ui/static/vis.min.js):  
=====

Copyright (C) 2010-2015 Almende B.V.

Vis.js is dual licensed under both

\* The Apache 2.0 License  
<http://www.apache.org/licenses/LICENSE-2.0>

and

\* The MIT License  
<http://opensource.org/licenses/MIT>

Vis.js may be distributed under either license.

=====  
For dagre-d3 (core/src/main/resources/org/apache/spark/ui/static/dagre-d3.min.js):  
=====

Copyright (c) 2013 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====  
For graphlib-dot (core/src/main/resources/org/apache/spark/ui/static/graphlib-dot.min.js):  
=====

Copyright (c) 2012-2013 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====  
BSD-style licenses  
=====

The following components are provided under a BSD-style license. See project link for details.

- (BSD 3 Clause) core (com.github.fommil.netlib:core:1.1.2 - <https://github.com/fommil/netlib-java/core>)
- (BSD 3 Clause) JPMML-Model (org.jpmmml:pmml-model:1.1.15 - <https://github.com/jpmmml/jpmmml-model>)
- (BSD 3-clause style license) jblas (org.jblas:jblas:1.2.4 - <http://jblas.org/>)
- (BSD License) AntLR Parser Generator (antlr:antlr:2.7.7 - <http://www.antlr.org/>)
- (BSD License) Javolution (javolution:javolution:5.5.1 - <http://javolution.org>)
- (BSD licence) ANTLR ST4 4.0.4 (org.antlr:ST4:4.0.4 - <http://www.stringtemplate.org>)
- (BSD licence) ANTLR StringTemplate (org.antlr:stringtemplate:3.2.1 - <http://www.stringtemplate.org>)
- (BSD style) Hamcrest Core (org.hamcrest:hamcrest-core:1.1 - no url defined)
- (BSD) JLine (jline:jline:0.9.94 - <http://jline.sourceforge.net>)
- (BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.3 - <http://paranamer.codehaus.org/paranamer>)
- (BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.6 - <http://paranamer.codehaus.org/paranamer>)
- (BSD-like) (The BSD License) jline (org.scala-lang:jline:2.10.4 - <http://www.scala-lang.org/>)
- (BSD-like) Scala Actors library (org.scala-lang:scala-actors:2.10.4 - <http://www.scala-lang.org/>)
- (BSD-like) Scala Compiler (org.scala-lang:scala-compiler:2.10.4 - <http://www.scala-lang.org/>)
- (BSD-like) Scala Compiler (org.scala-lang:scala-reflect:2.10.4 - <http://www.scala-lang.org/>)
- (BSD-like) Scala Library (org.scala-lang:scala-library:2.10.4 - <http://www.scala-lang.org/>)
- (BSD-like) Scalap (org.scala-lang:scalap:2.10.4 - <http://www.scala-lang.org/>)
- (BSD-style) scalacheck (org.scalacheck:scalacheck\_2.10:1.10.0 - <http://www.scalacheck.org>)
- (BSD-style) spire (org.spire-math:spire\_2.10:0.7.1 - <http://spire-math.org>)
- (BSD-style) spire-macros (org.spire-math:spire-macros\_2.10:0.7.1 - <http://spire-math.org>)
- (New BSD License) Kryo (com.esotericsoftware.kryo:kryo:2.21 - <http://code.google.com/p/kryo/>)
- (New BSD License) MinLog (com.esotericsoftware.minlog:minlog:1.2 - <http://code.google.com/p/minlog/>)
- (New BSD License) ReflectASM (com.esotericsoftware.reflectasm:reflectasm:1.07 -

<http://code.google.com/p/reflectasm/>)

(New BSD license) Protocol Buffer Java API (com.google.protobuf:protobuf-java:2.5.0 -

<http://code.google.com/p/protobuf/>)

(New BSD license) Protocol Buffer Java API (org.spark-project.protobuf:protobuf-java:2.4.1-shaded -

<http://code.google.com/p/protobuf/>)

(The BSD License) Fortran to Java ARPACK (net.sourceforge.f2j:arpack\_combined\_all:0.1 -

<http://f2j.sourceforge.net>)

(The BSD License) xmlenc Library (xmlenc:xmlenc:0.52 - <http://xmlenc.sourceforge.net>)

(The New BSD License) Py4J (net.sf.py4j:py4j:0.8.2.1 - <http://py4j.sourceforge.net/>)

(Two-clause BSD-style license) JUnit-Interface (com.novocode:junit-interface:0.10 -

<http://github.com/szeiger/junit-interface/>)

(ISC/BSD License) jbcrypt (org.mindrot:jbcrypt:0.3m - <http://www.mindrot.org/>)

=====  
MIT licenses  
=====

The following components are provided under the MIT License. See project link for details.

(MIT License) JCL 1.1.1 implemented over SLF4J (org.slf4j:jcl-over-slf4j:1.7.5 - <http://www.slf4j.org>)

(MIT License) JUL to SLF4J bridge (org.slf4j:jul-to-slf4j:1.7.5 - <http://www.slf4j.org>)

(MIT License) SLF4J API Module (org.slf4j:slf4j-api:1.7.5 - <http://www.slf4j.org>)

(MIT License) SLF4J LOG4J-12 Binding (org.slf4j:slf4j-log4j12:1.7.5 - <http://www.slf4j.org>)

(MIT License) pyrolite (org.spark-project:pyrolite:2.0.1 - <http://pythonhosted.org/Pyro4/>)

(MIT License) scopt (com.github.scopt:scopt\_2.10:3.2.0 - <https://github.com/scopt/scopt>)

(The MIT License) Mockito (org.mockito:mockito-all:1.8.5 - <http://www.mockito.org>)

(MIT License) jquery (<https://jquery.org/license/>)

(MIT License) AnchorJS (<https://github.com/bryanbraun/anchorjs>)

## 1.845 Spark 1.2.1

### 1.845.1 Available under license :

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]"



replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====

Apache Spark Subcomponents:

The Apache Spark project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

=====

For the Boto EC2 library (ec2/third\_party/boto\*.zip):

=====

Copyright (c) 2006-2008 Mitch Garnaat <http://garnaat.org/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====  
For CloudPickle (pyspark/cloudpickle.py):  
=====

Copyright (c) 2012, Regents of the University of California.  
Copyright (c) 2009 PiCloud, Inc. <<http://www.picloud.com>>\_.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of California, Berkeley nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For Py4J (python/lib/py4j-0.8.2.1-src.zip)  
=====

Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For DPark join code (python/pyspark/join.py):  
=====

Copyright (c) 2011, Douban Inc. <<http://www.douban.com/>>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the Douban Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For heapq (pyspark/heapq3.py):  
=====

# A. HISTORY OF THE SOFTWARE

# =====

#

# Python was created in the early 1990s by Guido van Rossum at Stichting  
# Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
# as a successor of a language called ABC. Guido remains Python's  
# principal author, although it includes many contributions from others.

#

# In 1995, Guido continued his work on Python at the Corporation for  
# National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
# in Reston, Virginia where he released several versions of the  
# software.

#

# In May 2000, Guido and the Python core development team moved to  
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
# year, the PythonLabs team moved to Digital Creations (now Zope  
# Corporation, see <http://www.zope.com>). In 2001, the Python Software  
# Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
# non-profit organization created specifically to own Python-related  
# Intellectual Property. Zope Corporation is a sponsoring member of  
# the PSF.

#

# All Python releases are Open Source (see <http://www.opensource.org> for  
# the Open Source Definition). Historically, most, but not all, Python  
# releases have also been GPL-compatible; the table below summarizes  
# the various releases.

#

| # Release | Derived | Year | Owner | GPL-            |
|-----------|---------|------|-------|-----------------|
| # from    |         |      |       | compatible? (1) |

#

```

# 0.9.0 thru 1.2      1991-1995  CWI    yes
# 1.3 thru 1.5.2 1.2  1995-1999  CNRI   yes
# 1.6      1.5.2  2000   CNRI   no
# 2.0      1.6    2000   BeOpen.com no
# 1.6.1    1.6    2001   CNRI   yes (2)
# 2.1      2.0+1.6.1 2001   PSF    no
# 2.0.1    2.0+1.6.1 2001   PSF    yes
# 2.1.1    2.1+2.0.1 2001   PSF    yes
# 2.2      2.1.1  2001   PSF    yes
# 2.1.2    2.1.1  2002   PSF    yes
# 2.1.3    2.1.2  2002   PSF    yes
# 2.2.1    2.2    2002   PSF    yes
# 2.2.2    2.2.1  2002   PSF    yes
# 2.2.3    2.2.2  2003   PSF    yes
# 2.3      2.2.2  2002-2003 PSF    yes
# 2.3.1    2.3    2002-2003 PSF    yes
# 2.3.2    2.3.1  2002-2003 PSF    yes
# 2.3.3    2.3.2  2002-2003 PSF    yes
# 2.3.4    2.3.3  2004    PSF    yes
# 2.3.5    2.3.4  2005    PSF    yes
# 2.4      2.3    2004    PSF    yes
# 2.4.1    2.4    2005    PSF    yes
# 2.4.2    2.4.1  2005    PSF    yes
# 2.4.3    2.4.2  2006    PSF    yes
# 2.4.4    2.4.3  2006    PSF    yes
# 2.5      2.4    2006    PSF    yes
# 2.5.1    2.5    2007    PSF    yes
# 2.5.2    2.5.1  2008    PSF    yes
# 2.5.3    2.5.2  2008    PSF    yes
# 2.6      2.5    2008    PSF    yes
# 2.6.1    2.6    2008    PSF    yes
# 2.6.2    2.6.1  2009    PSF    yes
# 2.6.3    2.6.2  2009    PSF    yes
# 2.6.4    2.6.3  2009    PSF    yes
# 2.6.5    2.6.4  2010    PSF    yes
# 2.7      2.6    2010    PSF    yes
#
# Footnotes:
#
# (1) GPL-compatible doesn't mean that we're distributing Python under
# the GPL. All Python licenses, unlike the GPL, let you distribute
# a modified version without making your changes open source. The
# GPL-compatible licenses make it possible to combine Python with
# other software that is released under the GPL; the others don't.
#
# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
# because its license has a choice of law clause. According to
# CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

```

```

# is "not incompatible" with the GPL.
#
# Thanks to the many outside volunteers who have worked under Guido's
# direction to make these releases possible.
#
#
# B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
# =====
#
# PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
# -----
#
# 1. This LICENSE AGREEMENT is between the Python Software Foundation
# ("PSF"), and the Individual or Organization ("Licensee") accessing and
# otherwise using this software ("Python") in source or binary form and
# its associated documentation.
#
# 2. Subject to the terms and conditions of this License Agreement, PSF hereby
# grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,
# analyze, test, perform and/or display publicly, prepare derivative works,
# distribute, and otherwise use Python alone or in any derivative version,
# provided, however, that PSF's License Agreement and PSF's notice of copyright,
# i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,
# 2011, 2012, 2013 Python Software Foundation; All Rights Reserved" are retained
# in Python alone or in any derivative version prepared by Licensee.
#
# 3. In the event Licensee prepares a derivative work that is based on
# or incorporates Python or any part thereof, and wants to make
# the derivative work available to others as provided herein, then
# Licensee hereby agrees to include in any such work a brief summary of
# the changes made to Python.
#
# 4. PSF is making Python available to Licensee on an "AS IS"
# basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
# INFRINGE ANY THIRD PARTY RIGHTS.
#
# 5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
# FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
#
# 6. This License Agreement will automatically terminate upon a material
# breach of its terms and conditions.
#
# 7. Nothing in this License Agreement shall be deemed to create any

```

```
# relationship of agency, partnership, or joint venture between PSF and
# Licensee. This License Agreement does not grant permission to use PSF
# trademarks or trade name in a trademark sense to endorse or promote
# products or services of Licensee, or any third party.
#
# 8. By copying, installing or otherwise using Python, Licensee
# agrees to be bound by the terms and conditions of this License
# Agreement.
#
#
# BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
# -----
#
# BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1
#
# 1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
# office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
# Individual or Organization ("Licensee") accessing and otherwise using
# this software in source or binary form and its associated
# documentation ("the Software").
#
# 2. Subject to the terms and conditions of this BeOpen Python License
# Agreement, BeOpen hereby grants Licensee a non-exclusive,
# royalty-free, world-wide license to reproduce, analyze, test, perform
# and/or display publicly, prepare derivative works, distribute, and
# otherwise use the Software alone or in any derivative version,
# provided, however, that the BeOpen Python License is retained in the
# Software, alone or in any derivative version prepared by Licensee.
#
# 3. BeOpen is making the Software available to Licensee on an "AS IS"
# basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
# INFRINGE ANY THIRD PARTY RIGHTS.
#
# 4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
# SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
# AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
# DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
#
# 5. This License Agreement will automatically terminate upon a material
# breach of its terms and conditions.
#
# 6. This License Agreement shall be governed by and interpreted in all
# respects by the law of the State of California, excluding conflict of
# law provisions. Nothing in this License Agreement shall be deemed to
# create any relationship of agency, partnership, or joint venture
```

```
# between BeOpen and Licensee. This License Agreement does not grant
# permission to use BeOpen trademarks or trade names in a trademark
# sense to endorse or promote products or services of Licensee, or any
# third party. As an exception, the "BeOpen Python" logos available at
# http://www.pythonlabs.com/logos.html may be used according to the
# permissions granted on that web page.
#
# 7. By copying, installing or otherwise using the software, Licensee
# agrees to be bound by the terms and conditions of this License
# Agreement.
#
#
# CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
# -----
#
# 1. This LICENSE AGREEMENT is between the Corporation for National
# Research Initiatives, having an office at 1895 Preston White Drive,
# Reston, VA 20191 ("CNRI"), and the Individual or Organization
# ("Licensee") accessing and otherwise using Python 1.6.1 software in
# source or binary form and its associated documentation.
#
# 2. Subject to the terms and conditions of this License Agreement, CNRI
# hereby grants Licensee a nonexclusive, royalty-free, world-wide
# license to reproduce, analyze, test, perform and/or display publicly,
# prepare derivative works, distribute, and otherwise use Python 1.6.1
# alone or in any derivative version, provided, however, that CNRI's
# License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
# 1995-2001 Corporation for National Research Initiatives; All Rights
# Reserved" are retained in Python 1.6.1 alone or in any derivative
# version prepared by Licensee. Alternately, in lieu of CNRI's License
# Agreement, Licensee may substitute the following text (omitting the
# quotes): "Python 1.6.1 is made available subject to the terms and
# conditions in CNRI's License Agreement. This Agreement together with
# Python 1.6.1 may be located on the Internet using the following
# unique, persistent identifier (known as a handle): 1895.22/1013. This
# Agreement may also be obtained from a proxy server on the Internet
# using the following URL: http://hdl.handle.net/1895.22/1013".
#
# 3. In the event Licensee prepares a derivative work that is based on
# or incorporates Python 1.6.1 or any part thereof, and wants to make
# the derivative work available to others as provided herein, then
# Licensee hereby agrees to include in any such work a brief summary of
# the changes made to Python 1.6.1.
#
# 4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
# basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
```



# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. This License Agreement shall be governed by the federal  
# intellectual property law of the United States, including without  
# limitation the federal copyright law, and, to the extent such  
# U.S. federal law does not apply, by the law of the Commonwealth of  
# Virginia, excluding Virginia's conflict of law provisions.  
# Notwithstanding the foregoing, with regard to derivative works based  
# on Python 1.6.1 that incorporate non-separable material that was  
# previously distributed under the GNU General Public License (GPL), the  
# law of the Commonwealth of Virginia shall govern this License  
# Agreement only as to issues arising under or with respect to  
# Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this  
# License Agreement shall be deemed to create any relationship of  
# agency, partnership, or joint venture between CNRI and Licensee. This  
# License Agreement does not grant permission to use CNRI trademarks or  
# trade name in a trademark sense to endorse or promote products or  
# services of Licensee, or any third party.  
#  
# 8. By clicking on the "ACCEPT" button where indicated, or by copying,  
# installing or otherwise using Python 1.6.1, Licensee agrees to be  
# bound by the terms and conditions of this License Agreement.  
#  
# ACCEPT  
#  
#  
# CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2  
# -----  
#  
# Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,  
# The Netherlands. All rights reserved.  
#  
# Permission to use, copy, modify, and distribute this software and its  
# documentation for any purpose and without fee is hereby granted,  
# provided that the above copyright notice appear in all copies and that  
# both that copyright notice and this permission notice appear in  
# supporting documentation, and that the name of Stichting Mathematisch  
# Centrum or CWI not be used in advertising or publicity pertaining to  
# distribution of the software without specific, written prior

# permission.  
#  
# STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO  
# THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND  
# FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE  
# FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES  
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN  
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT  
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

=====  
For sortable (core/src/main/resources/org/apache/spark/ui/static/sortable.js):  
=====

Copyright (c) 1997-2007 Stuart Langridge

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====  
For Scala Interpreter classes (all .scala files in repl/src/main/scala except for Main.Scala, SparkHelper.scala and ExecutorClassLoader.scala), and for SerializableMapWrapper in JavaUtils.scala:  
=====

Copyright (c) 2002-2013 EPFL  
Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
=====  
For sbt and sbt-launch-lib.bash in sbt/:  
=====
```

```
// Generated from http://www.opensource.org/licenses/bsd-license.php  
Copyright (c) 2011, Paul Phillips.  
All rights reserved.
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

SERVICES;

LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
For SnapTree:  
=====

### SNAPTREE LICENSE

Copyright (c) 2009-2012 Stanford University, unless otherwise specified.  
All rights reserved.

This software was developed by the Pervasive Parallelism Laboratory of Stanford University, California, USA.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Stanford University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For Timsort (core/src/main/java/org/apache/spark/util/collection/TimSort.java):

=====  
Copyright (C) 2008 The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

=====  
For LimitedInputStream  
(network/common/src/main/java/org/apache/spark/network/util/LimitedInputStream.java):

=====  
Copyright (C) 2007 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

=====  
BSD-style licenses

=====  
The following components are provided under a BSD-style license. See project link for details.

- (BSD 3 Clause) core (com.github.fommil.netlib:core:1.1.2 - <https://github.com/fommil/netlib-java/core>)
- (BSD 3-clause style license) jblas (org.jblas:jblas:1.2.3 - <http://jblas.org/>)
- (BSD License) AntLR Parser Generator (antlr:antlr:2.7.7 - <http://www.antlr.org/>)
- (BSD License) Javolution (javolution:javolution:5.5.1 - <http://javolution.org>)
- (BSD licence) ANTLR ST4 4.0.4 (org.antlr:ST4:4.0.4 - <http://www.stringtemplate.org>)
- (BSD licence) ANTLR StringTemplate (org.antlr:stringtemplate:3.2.1 - <http://www.stringtemplate.org>)

(BSD style) Hamcrest Core (org.hamcrest:hamcrest-core:1.1 - no url defined)  
 (BSD) JLine (jline:jline:0.9.94 - http://jline.sourceforge.net)  
 (BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.3 -  
 http://paranamer.codehaus.org/paranamer)  
 (BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.6 -  
 http://paranamer.codehaus.org/paranamer)  
 (BSD-like) (The BSD License) jline (org.scala-lang:jline:2.10.4 - http://www.scala-lang.org/  
 (BSD-like) Scala Actors library (org.scala-lang:scala-actors:2.10.4 - http://www.scala-lang.org/  
 (BSD-like) Scala Compiler (org.scala-lang:scala-compiler:2.10.4 - http://www.scala-lang.org/  
 (BSD-like) Scala Compiler (org.scala-lang:scala-reflect:2.10.4 - http://www.scala-lang.org/  
 (BSD-like) Scala Library (org.scala-lang:scala-library:2.10.4 - http://www.scala-lang.org/  
 (BSD-like) Scalap (org.scala-lang:scalap:2.10.4 - http://www.scala-lang.org/  
 (BSD-style) scalacheck (org.scalacheck:scalacheck\_2.10:1.10.0 - http://www.scalacheck.org)  
 (BSD-style) spire (org.spire-math:spire\_2.10:0.7.1 - http://spire-math.org)  
 (BSD-style) spire-macros (org.spire-math:spire-macros\_2.10:0.7.1 - http://spire-math.org)  
 (New BSD License) Kryo (com.esotericsoftware.kryo:kryo:2.21 - http://code.google.com/p/kryo/  
 (New BSD License) MinLog (com.esotericsoftware.minlog:minlog:1.2 - http://code.google.com/p/minlog/  
 (New BSD License) ReflectASM (com.esotericsoftware.reflectasm:reflectasm:1.07 -  
 http://code.google.com/p/reflectasm/  
 (New BSD license) Protocol Buffer Java API (com.google.protobuf:protobuf-java:2.5.0 -  
 http://code.google.com/p/protobuf)  
 (New BSD license) Protocol Buffer Java API (org.spark-project.protobuf:protobuf-java:2.4.1-shaded -  
 http://code.google.com/p/protobuf)  
 (The BSD License) Fortran to Java ARPACK (net.sourceforge.f2j:arpack\_combined\_all:0.1 -  
 http://f2j.sourceforge.net)  
 (The BSD License) xmlenc Library (xmlenc:xmlenc:0.52 - http://xmlenc.sourceforge.net)  
 (The New BSD License) Py4J (net.sf.py4j:py4j:0.8.2.1 - http://py4j.sourceforge.net/  
 (Two-clause BSD-style license) JUnit-Interface (com.novocode:junit-interface:0.10 -  
 http://github.com/szeiger/junit-interface/  
 (ISC/BSD License) jbcrypt (org.mindrot:jbcrypt:0.3m - http://www.mindrot.org/)

=====  
 MIT licenses  
 =====

The following components are provided under the MIT License. See project link for details.

(MIT License) JCL 1.1.1 implemented over SLF4J (org.slf4j:jcl-over-slf4j:1.7.5 - http://www.slf4j.org)  
 (MIT License) JUL to SLF4J bridge (org.slf4j:jul-to-slf4j:1.7.5 - http://www.slf4j.org)  
 (MIT License) SLF4J API Module (org.slf4j:slf4j-api:1.7.5 - http://www.slf4j.org)  
 (MIT License) SLF4J LOG4J-12 Binding (org.slf4j:slf4j-log4j12:1.7.5 - http://www.slf4j.org)  
 (MIT License) pyrolite (org.spark-project.pyrolite:2.0.1 - http://pythonhosted.org/Pyro4/  
 (MIT License) scopt (com.github.scopt:scopt\_2.10:3.2.0 - https://github.com/scopt/scopt)  
 (The MIT License) Mockito (org.mockito:mockito-all:1.8.5 - http://www.mockito.org)  
 (MIT License) jquery (https://jquery.org/license/)

/\*

- \* Licensed to the Apache Software Foundation (ASF) under one or more
- \* contributor license agreements. See the NOTICE file distributed with

\* this work for additional information regarding copyright ownership.  
\* The ASF licenses this file to You under the Apache License, Version 2.0  
\* (the "License"); you may not use this file except in compliance with  
\* the License. You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/  
#!/usr/bin/env bash

#  
# Licensed to the Apache Software Foundation (ASF) under one or more  
# contributor license agreements. See the NOTICE file distributed with  
# this work for additional information regarding copyright ownership.  
# The ASF licenses this file to You under the Apache License, Version 2.0  
# (the "License"); you may not use this file except in compliance with  
# the License. You may obtain a copy of the License at  
#  
# <http://www.apache.org/licenses/LICENSE-2.0>  
#  
# Unless required by applicable law or agreed to in writing, software  
# distributed under the License is distributed on an "AS IS" BASIS,  
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
# See the License for the specific language governing permissions and  
# limitations under the License.  
#  
Apache Spark  
Copyright 2014 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

=====  
Common Development and Distribution License 1.0  
=====

The following components are provided under the Common Development and Distribution License 1.0. See project link for details.

- (CDDL 1.0) Glassfish Jasper (org.mortbay.jetty:jsp-2.1:6.1.14 - <http://jetty.mortbay.org/project/modules/jsp-2.1>)
- (CDDL 1.0) Servlet Specification 2.5 API (org.mortbay.jetty:servlet-api-2.5:6.1.14 - <http://jetty.mortbay.org/project/modules/servlet-api-2.5>)

(COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0) (GNU General Public Library) Streaming API for XML (javax.xml.stream:stax-api:1.0-2 - no url defined)

(Common Development and Distribution License (CDDL) v1.0) JavaBeans Activation Framework (JAF) (javax.activation:activation:1.1 - <http://java.sun.com/products/javabeans/jaf/index.jsp>)

=====  
Common Development and Distribution License 1.1  
=====

The following components are provided under the Common Development and Distribution License 1.1. See project link for details.

(CDDL 1.1) (GPL2 w/ CPE) JAXB API bundle for GlassFish V3 (javax.xml.bind:jaxb-api:2.2.2 - <https://jaxb.dev.java.net/>)

(CDDL 1.1) (GPL2 w/ CPE) JAXB RI (com.sun.xml.bind:jaxb-impl:2.2.3-1 - <http://jaxb.java.net/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.8 - <https://jersey.dev.java.net/jersey-core/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.9 - <https://jersey.java.net/jersey-core/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-guice (com.sun.jersey.contribs:jersey-guice:1.9 - <https://jersey.java.net/jersey-contribs/jersey-guice/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.8 - <https://jersey.dev.java.net/jersey-json/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.9 - <https://jersey.java.net/jersey-json/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.8 - <https://jersey.dev.java.net/jersey-server/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.9 - <https://jersey.java.net/jersey-server/>)

=====  
Common Public License 1.0  
=====

The following components are provided under the Common Public 1.0 License. See project link for details.

(Common Public License Version 1.0) JUnit (junit:junit-dep:4.10 - <http://junit.org>)

(Common Public License Version 1.0) JUnit (junit:junit:3.8.1 - <http://junit.org>)

(Common Public License Version 1.0) JUnit (junit:junit:4.8.2 - <http://junit.org>)

=====  
Eclipse Public License 1.0  
=====

The following components are provided under the Eclipse Public License 1.0. See project link for details.

(Eclipse Public License - Version 1.0) mqtt-client (org.eclipse.paho:mqtt-client:0.4.0 - <http://www.eclipse.org/paho/mqtt-client>)

(Eclipse Public License v1.0) Eclipse JDT Core (org.eclipse.jdt:core:3.1.1 - <http://www.eclipse.org/jdt/>)

=====  
Mozilla Public License 1.0



=====

The following components are provided under the Mozilla Public License 1.0. See project link for details.

(GPL) (LGPL) (MPL) JTransforms (com.github.rwl:jtransforms:2.4.0 -  
<http://sourceforge.net/projects/jtransforms/>)

(Mozilla Public License Version 1.1) jamon-runtime (org.jamon:jamon-runtime:2.3.1 -  
<http://www.jamon.org/jamon-runtime/>)

=====

NOTICE files

=====

The following NOTICEs are pertain to software distributed with this project.

// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for  
// -----

Apache Avro  
Copyright 2009-2013 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache Commons Codec  
Copyright 2002-2009 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

-----  
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from <http://aspell.sourceforge.net/test/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org). Verbatim copying  
and distribution of this entire article is permitted in any medium,  
provided this notice is preserved.

-----  
Apache HttpComponents HttpClient  
Copyright 1999-2011 The Apache Software Foundation

This project contains annotations derived from JCIP-ANNOTATIONS

Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

Apache HttpComponents HttpCore  
Copyright 2005-2011 The Apache Software Foundation

Curator Recipes  
Copyright 2011-2014 The Apache Software Foundation

Curator Framework  
Copyright 2011-2014 The Apache Software Foundation

Curator Client  
Copyright 2011-2014 The Apache Software Foundation

Apache Geronimo  
Copyright 2003-2008 The Apache Software Foundation

Activation 1.1  
Copyright 2003-2007 The Apache Software Foundation

Apache Commons Lang  
Copyright 2001-2014 The Apache Software Foundation

This product includes software from the Spring Framework,  
under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)

Apache log4j  
Copyright 2007 The Apache Software Foundation

# Compress LZF

This library contains efficient implementation of LZF compression format,  
as well as additional helper classes that build on JDK-provided gzip (deflate)  
codec.

## Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE file.

## Credit

Library has been written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)).  
It was started at Ning, inc., as an official Open Source process used by  
platform backend, but after initial versions has been developed outside of  
Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

Objenesis

Copyright 2006-2009 Joe Walnes, Henri Tremblay, Leonardo Mesquita

Apache Commons Net

Copyright 2001-2010 The Apache Software Foundation

The Netty Project

=====

Please visit the Netty web site for more information:

- \* <http://netty.io/>

Copyright 2011 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

- \* LICENSE:
  - \* <license/LICENSE.jsr166y.txt> (Public Domain)
- \* HOMEPAGE:
  - \* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>
  - \* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain

Base64 Encoder and Decoder, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.base64.txt (Public Domain)
- \* HOMEPAGE:
  - \* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.jzlib.txt (BSD Style License)
- \* HOMEPAGE:
  - \* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.protobuf.txt (New BSD License)
- \* HOMEPAGE:
  - \* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.slf4j.txt (MIT License)
- \* HOMEPAGE:
  - \* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.commons-logging.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.log4j.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://logging.apache.org/log4j/>

This product optionally depends on 'JBoss Logging', a logging framework,

which can be obtained at:

\* LICENSE:

\* license/LICENSE.jboss-logging.txt (GNU LGPL 2.1)

\* HOMEPAGE:

\* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

\* LICENSE:

\* license/LICENSE.felix.txt (Apache License 2.0)

\* HOMEPAGE:

\* <http://felix.apache.org/>

This product optionally depends on 'Webbit', a Java event based WebSocket and HTTP server:

\* LICENSE:

\* license/LICENSE.webbit.txt (BSD License)

\* HOMEPAGE:

\* <https://github.com/joewalnes/webbit>

#### # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

#### ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

mesos

Copyright 2014 The Apache Software Foundation

Apache Thrift

Copyright 2006-2010 The Apache Software Foundation.

Apache Ant

Copyright 1999-2013 The Apache Software Foundation

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

Apache Commons IO

Copyright 2002-2012 The Apache Software Foundation

Apache Commons Math

Copyright 2001-2013 The Apache Software Foundation

=====  
The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.  
=====

=====  
The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>)  
Copyright 2003-2009 SciPy Developers.  
=====

=====  
The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.  
=====

=====  
This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.

The LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general includes software translated from the lmdcr, lmpar and qrsolv Fortran routines from the Minpack package  
Minpack Copyright Notice (1999) University of Chicago. All rights reserved  
=====

The GraggBulirschStoerIntegrator class in package  
org.apache.commons.math3.ode.nonstiff includes software translated  
from the odex Fortran routine developed by E. Hairer and G. Wanner.  
Original source copyright:  
Copyright (c) 2004, Ernst Hairer

---

The EigenDecompositionImpl class in package  
org.apache.commons.math3.linear includes software translated  
from some LAPACK Fortran routines. Original source copyright:  
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

---

The MersenneTwister class in package org.apache.commons.math3.random  
includes software translated from the 2002-01-26 version of  
the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji  
Nishimura. Original source copyright:  
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,  
All rights reserved

---

The LocalizedFormatsTest class in the unit tests is an adapted version of  
the OrekitMessagesTest class from the orekit library distributed under the  
terms of the Apache 2 licence. Original source copyright:  
Copyright 2010 CS Systmes d'Information

---

The HermiteInterpolator class and its corresponding test have been imported from  
the orekit library distributed under the terms of the Apache 2 licence. Original  
source copyright:  
Copyright 2010-2012 CS Systmes d'Information

---

The creation of the package "o.a.c.m.analysis.integration.gauss" was inspired  
by an original code donated by Sbastien Brisard.

---

The complete text of licenses and disclaimers associated with the the original  
sources enumerated above at the time of code translation are in the LICENSE.txt  
file.

This product currently only contains code developed by authors  
of specific components, as identified by the source code files;  
if such notes are missing files have been created by  
Tatu Saloranta.

For additional credits (generally to people who reported problems)

see CREDITS file.

Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation

Apache Commons Compress  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons CLI  
Copyright 2001-2009 The Apache Software Foundation

Google Guice - Extensions - Servlet  
Copyright 2006-2011 Google, Inc.

Google Guice - Core Library  
Copyright 2006-2011 Google, Inc.

Apache Jakarta HttpClient  
Copyright 1999-2007 The Apache Software Foundation

Apache Hive  
Copyright 2008-2013 The Apache Software Foundation

This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software developed by The JDBM Project (<http://jdbm.sourceforge.net/>).

This product includes/uses ANTLR (<http://www.antlr.org/>),  
Copyright (c) 2003-2011, Terrence Parr.

This product includes/uses StringTemplate (<http://www.stringtemplate.org/>),  
Copyright (c) 2011, Terrence Parr.

This product includes/uses ASM (<http://asm.ow2.org/>),  
Copyright (c) 2000-2007 INRIA, France Telecom.

This product includes/uses org.json (<http://www.json.org/java/index.html>),  
Copyright (c) 2002 JSON.org

This product includes/uses JLine (<http://jline.sourceforge.net/>),  
Copyright (c) 2002-2006, Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SQLLine (<http://sqlline.sourceforge.net/>),  
Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SLF4J (<http://www.slf4j.org/>),



Copyright (c) 2004-2010 QOS.ch

This product includes/uses Bootstrap (<http://twitter.github.com/bootstrap/>),  
Copyright (c) 2012 Twitter, Inc.

This product includes/uses Glyphicons (<http://glyphicons.com/>),  
Copyright (c) 2010 - 2012 Jan Kovark

This product includes DataNucleus (<http://www.datanucleus.org/>)  
Copyright 2008-2008 DataNucleus

This product includes Guava (<http://code.google.com/p/guava-libraries/>)  
Copyright (C) 2006 Google Inc.

This product includes JavaEWAH (<http://code.google.com/p/javaewah/>)  
Copyright (C) 2011 Google Inc.

Apache Commons Pool  
Copyright 1999-2009 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the DataNucleus distribution. ==  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Erik Bengtson  
Andy Jefferson

=====  
This product has included contributions from some individuals,  
including the following:  
=====

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Joerg von Frantzius  
Thomas Marti  
Barry Haddow  
Marco Schulze  
Ralph Ullrich  
David Ezzio  
Brendan de Beer

David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Marcus Mennemeier  
Xuan Baldauf  
Eric Sultan

=====  
This product also includes software developed by the TJDO project  
(<http://tjdo.sourceforge.net/>).  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Andy Jefferson  
Erik Bengtson  
Joerg von Frantzius  
Marco Schulze

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Barry Haddow  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Anton Troshin (Timesten)

=====  
This product also includes software developed by the Apache Commons project  
(<http://commons.apache.org/>).  
=====

Apache Java Data Objects (JDO)  
Copyright 2005-2006 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the Apache Derby distribution. ==  
=====

Apache Derby  
Copyright 2004-2008 The Apache Software Foundation

Portions of Derby were originally developed by International Business Machines Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Derby CLA".  
The following copyright notice(s) were affixed to portions of the code with which this file is now or was at one time distributed and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally developed by the National Institute of Standards and Technology (NIST), an agency of the United States Department of Commerce, and adapted by International Business Machines Corporation in accordance with the NIST Software Acknowledgment and Redistribution document at [http://www.itl.nist.gov/div897/ctg/sql\\_form.htm](http://www.itl.nist.gov/div897/ctg/sql_form.htm)

Apache Commons Collections  
Copyright 2001-2008 The Apache Software Foundation

Apache Commons Configuration  
Copyright 2001-2008 The Apache Software Foundation

Apache Jakarta Commons Digester  
Copyright 2001-2006 The Apache Software Foundation

Apache Commons BeanUtils  
Copyright 2000-2008 The Apache Software Foundation

Apache Avro Mapred API  
Copyright 2009-2013 The Apache Software Foundation

Apache Avro IPC  
Copyright 2009-2013 The Apache Software Foundation  
@echo off

rem  
rem Licensed to the Apache Software Foundation (ASF) under one or more  
rem contributor license agreements. See the NOTICE file distributed with  
rem this work for additional information regarding copyright ownership.  
rem The ASF licenses this file to You under the Apache License, Version 2.0

```
rem (the "License"); you may not use this file except in compliance with
rem the License. You may obtain a copy of the License at
rem
rem http://www.apache.org/licenses/LICENSE-2.0
rem
rem Unless required by applicable law or agreed to in writing, software
rem distributed under the License is distributed on an "AS IS" BASIS,
rem WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
rem See the License for the specific language governing permissions and
rem limitations under the License.
rem
```

```
rem This is the entry point for running Spark submit. To avoid polluting the
rem environment, it just launches a new cmd to do the real work.
```

```
cmd /V /E /C %~dp0spark-submit2.cmd %*
```

## 1.846 spark-core\_2.10 1.2.1

### 1.846.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Spark Project Core  
Copyright 2015 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

# 1.847 spark-network-common\_2.10 1.2.1

## 1.847.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION



## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Spark Project Networking  
Copyright 2015 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

# 1.848 spark-network-shuffle\_2.10 1.2.1

## 1.848.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity  
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,  
including but not limited to software source code, documentation  
source, and configuration files.

"Object" form shall mean any form resulting from mechanical  
transformation or translation of a Source form, including but  
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Spark Project Shuffle Streaming Service  
Copyright 2015 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

## 1.849 sparkles 1.0.0

### 1.849.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Blaine Bublitz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all

copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.850 sdx-exceptions 1.0.2

### 1.850.1 Available under license :

The MIT License

Copyright (c) 2015 Kyle E. Mitchell

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.851 spin.js 2.0.1

### 1.851.1 Available under license :

The MIT License

Copyright (c) 2011 Felix Gnass [fgnass at neteye dot de]

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.852 sprintf-js 1.0.3

### 1.852.1 Available under license :

Copyright (c) 2007-2014, Alexandru Marasteanu <hello [at] alexei (dot) ro>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of this software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.853 sprockets 2.12.4

# 1.854 sprockets-rails 2.3.3

## 1.854.1 Available under license :

Copyright (c) 2014 Joshua Peek

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.855 sqlite 3.6.20

# 1.856 sshkey 1.8.0

## 1.856.1 Available under license :

Copyright (c) 2011-2014 James Miller

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.857 sshpass 1.05 :r0.0.0

## 1.857.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or



distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

## POSSIBILITY OF SUCH DAMAGES.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## 1.858 statuses 1.2.1

### 1.858.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong [me@jongleberry.com](mailto:me@jongleberry.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.859 statuses 1.2.1

## 1.859.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong me@jongleberry.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.860 stax-api 1.0-2

### 1.860.1 Available under license :

THIS SOFTWARE IS AVAILABLE UNDER A DUAL LICENSE MODEL: CDDL 1.0  
and GPL v2

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

\*

\*1. Definitions.\*

o

\*1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

o

\*1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor

(if any), and the Modifications made by that particular Contributor.

o

\*1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

o

\*1.4. "Executable" means the Covered Software in any form other than Source Code.

o

\*1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

o

\*1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

o

\*1.7. "License" means this document.

o

\*1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

o

\*1.9. "Modifications" means the Source Code and Executable form of any of the following:

+

\*A.\* Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous

Modifications;

+

\*B.\* Any new file that contains any part of the Original Software or previous Modification; or

+

\*C.\* Any new file that is contributed or otherwise made available under the terms of this License.

o

\*1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

o

\*1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

o

\*1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

o

\*1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

\*

\*2. License Grants.\*

o

**\*2.1. The Initial Developer Grant.\***

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

+

**\*(a)\*** under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

+

**\*(b)\*** under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

+

**\*(c)\*** The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

+

**\*(d)\*** Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

o

**\*2.2. Contributor Grant.\***

Conditioned upon Your compliance with Section 3.1 below and



subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

+

\*(a)\* under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

+

\*(b)\* under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

+

\*(c)\* The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

+

\*(d)\* Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

\*

### \*3. Distribution Obligations.\*

o

#### \*3.1. Availability of Source Code.\*

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

o

#### \*3.2. Modifications.\*

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

o

#### \*3.3. Required Notices.\*

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

o

#### \*3.4. Application of Additional Terms.\*

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for,

warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

o

#### \*3.5. Distribution of Executable Versions.\*

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

o

#### \*3.6. Larger Works.\*

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

\*

#### \*4. Versions of the License.\*

o

##### \*4.1. New Versions.\*

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

o

#### \*4.2. Effect of New Versions.\*

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

o

#### \*4.3. Modified Versions.\*

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

\*

#### \*5. DISCLAIMER OF WARRANTY.\*

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY

COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

\*

\*6. TERMINATION.\*

o

\*6.1.\* This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

o

\*6.2.\* If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

o

\*6.3.\* In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

\*

**\*7. LIMITATION OF LIABILITY.\***

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

\*

**\*8. U.S. GOVERNMENT END USERS.\***

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

\*

**\*9. MISCELLANEOUS.\***

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law,

if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

\*

**\*10. RESPONSIBILITY FOR CLAIMS.\***

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

\*

**\* NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) \***

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

*\*Preamble\**

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.



**\*TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION\***

\*

\*0.\* This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

\*

\*1.\* You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

\*

\*2.\* You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

o

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of

any change.

o

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

o

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

\*

\*3.\* You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the

terms of Sections 1 and 2 above provided that you also do one of the following:

o

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

o

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

o

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

\*

\*4.\* You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

\*

\*5.\* You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

\*

\*6.\* Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

\*

\*7.\* If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply

in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

\*

\*8.\* If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

\*

\*9.\* The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

\*

\*10.\* If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

\*

#### NO WARRANTY

\*

\*11.\* BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

\*

\*12.\* IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

\*

#### END OF TERMS AND CONDITIONS

\*

#### \*How to Apply These Terms to Your New Programs\*

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

o

One line to give the program's name and a brief idea of what it does.

o

Copyright (C)

o

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

o

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

o

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

o

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to

redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

o

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

\*

\*"CLASSPATH" EXCEPTION TO THE GPL VERSION 2\*

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words "Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to



produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

## 1.861 strace 4.8 :r0

### 1.861.1 Available under license :

This is the Debian packaged version of strace. For a complete list of changes from the upstream version please see the changelog.

The upstream sources can be found at <http://sourceforge.net/projects/strace/>

This is the copyright as found in the upstream sources:

Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>

Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>

Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>

Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>

Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>

Copyright (C) 1998-2003 Wichert Akkerman <wakkerma@deephackmode.org>

Copyright (c) 2002-2008 Roland McGrath <roland@redhat.com>

Copyright (c) 2003-2008 Dmitry V. Levin <ldv@altlinux.org>

Copyright (c) 2007-2008 Jan Kratochvil <jan.kratochvil@redhat.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>

Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>

Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>

Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>

Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>

Copyright (C) 1998-2001 Wichert Akkerman <wakkerma@deephackmode.org>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.862 stream 2.7.0

### 1.862.1 Available under license :

/\*

\* Copyright (C) 2011 Clearspring Technologies, Inc.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

```
package com.clearspring.analytics.stream.cardinality;
```

```
import java.io.ByteArrayInputStream;  
import java.io.ByteArrayOutputStream;  
import java.io.DataInput;  
import java.io.DataInputStream;  
import java.io.DataOutput;  
import java.io.DataOutputStream;  
import java.io.Externalizable;  
import java.io.IOException;  
import java.io.ObjectInput;  
import java.io.ObjectOutput;  
import java.io.Serializable;
```

```
import java.util.ArrayList;  
import java.util.Collections;  
import java.util.Comparator;  
import java.util.List;  
import java.util.SortedMap;  
import java.util.TreeMap;
```

```
import com.clearspring.analytics.hash.MurmurHash;  
import com.clearspring.analytics.util.Bits;  
import com.clearspring.analytics.util.IBuilder;  
import com.clearspring.analytics.util.Varint;
```

```
/**
```

```
 * Implementation of HyperLogLog++ described in
```

```
 * <p/>
```

```
 * <p>
```

```
 *
```

```
 http://static.googleusercontent.com/external\_content/untrusted\_dlcp/research.google.com/en/us/pubs/archive/40671.pdf
```

```
 * </p>
```

```
 * <p/>
```

```
 * Brief HyperLogLog++ Overview
```

```
 * <p/>
```

```
 * Uses 64 bit hashing instead of 32
```

```
 * Has two representation modes: sparse and normal
```

```
 * <p/>
```

- \* 'normal' is approximately the same as regular hyperloglog (still uses 64 bits)
- \* <p/>
- \* 'sparse' handles lower cardinality values with a highly accurate but poorly scaling
- \* strategy and leverages data compression to compete with 'normal' for as long as possible
- \* (sparse has the advantage on accuracy per unit of memory at low cardinality but quickly falls behind).
- \*/

```
public class HyperLogLogPlus implements ICardinality, Serializable {

    private enum Format {
        SPARSE, NORMAL
    }

    /**
     * used to mark codec version for serialization
     */
    private static final int VERSION = 2;

    // threshold and bias data taken from google's bias correction data set:
    https://docs.google.com/document/d/1gyjfMHy43U9OWBXxfaeG-
    3MjGzejW1dpyMwEYAAWEI/view?fullscreen#
    static final double[] thresholdData = { 10, 20, 40, 80, 220, 400, 900, 1800, 3100, 6500, 15500, 20000, 50000,
    120000, 350000};

    static final double[][] rawEstimateData = {
        // precision 4
        { 11, 11.717, 12.207, 12.7896, 13.2882, 13.8204, 14.3772, 14.9342, 15.5202, 16.161, 16.7722, 17.4636,
        18.0396, 18.6766, 19.3566, 20.0454, 20.7936, 21.4856, 22.2666, 22.9946, 23.766, 24.4692, 25.3638, 26.0764,
        26.7864, 27.7602, 28.4814, 29.433, 30.2926, 31.0664, 31.9996, 32.7956, 33.5366, 34.5894, 35.5738, 36.2698,
        37.3682, 38.0544, 39.2342, 40.0108, 40.7966, 41.9298, 42.8704, 43.6358, 44.5194, 45.773, 46.6772, 47.6174,
        48.4888, 49.3304, 50.2506, 51.4996, 52.3824, 53.3078, 54.3984, 55.5838, 56.6618, 57.2174, 58.3514, 59.0802,
        60.1482, 61.0376, 62.3598, 62.8078, 63.9744, 64.914, 65.781, 67.1806, 68.0594, 68.8446, 69.7928, 70.8248,
        71.8324, 72.8598, 73.6246, 74.7014, 75.393, 76.6708, 77.2394,},
        // precision 5
        { 23, 23.1194, 23.8208, 24.2318, 24.77, 25.2436, 25.7774, 26.2848, 26.8224, 27.3742, 27.9336, 28.503,
        29.0494, 29.6292, 30.2124, 30.798, 31.367, 31.9728, 32.5944, 33.217, 33.8438, 34.3696, 35.0956, 35.7044, 36.324,
        37.0668, 37.6698, 38.3644, 39.049, 39.6918, 40.4146, 41.082, 41.687, 42.5398, 43.2462, 43.857, 44.6606, 45.4168,
        46.1248, 46.9222, 47.6804, 48.447, 49.3454, 49.9594, 50.7636, 51.5776, 52.331, 53.19, 53.9676, 54.7564, 55.5314,
        56.4442, 57.3708, 57.9774, 58.9624, 59.8796, 60.755, 61.472, 62.2076, 63.1024, 63.8908, 64.7338, 65.7728,
        66.629, 67.413, 68.3266, 69.1524, 70.2642, 71.1806, 72.0566, 72.9192, 73.7598, 74.3516, 75.5802, 76.4386,
        77.4916, 78.1524, 79.1892, 79.8414, 80.8798, 81.8376, 82.4698, 83.7656, 84.331, 85.5914, 86.6012, 87.7016,
        88.5582, 89.3394, 90.3544, 91.4912, 92.308, 93.3552, 93.9746, 95.2052, 95.727, 97.1322, 98.3944, 98.7588,
        100.242, 101.1914, 102.2538, 102.8776, 103.6292, 105.1932, 105.9152, 107.0868, 107.6728, 108.7144, 110.3114,
        110.8716, 111.245, 112.7908, 113.7064, 114.636, 115.7464, 116.1788, 117.7464, 118.4896, 119.6166, 120.5082,
        121.7798, 122.9028, 123.4426, 124.8854, 125.705, 126.4652, 128.3464, 128.3462, 130.0398, 131.0342, 131.0042,
        132.4766, 133.511, 134.7252, 135.425, 136.5172, 138.0572, 138.6694, 139.3712, 140.8598, 141.4594, 142.554,
        143.4006, 144.7374, 146.1634, 146.8994, 147.605, 147.9304, 149.1636, 150.2468, 151.5876, 152.2096, 153.7032,
        154.7146, 155.807, 156.9228, 157.0372, 158.5852,},
        // precision 6
```

{46, 46.1902, 47.271, 47.8358, 48.8142, 49.2854, 50.317, 51.354, 51.8924, 52.9436, 53.4596, 54.5262, 55.6248, 56.1574, 57.2822, 57.837, 58.9636, 60.074, 60.7042, 61.7976, 62.4772, 63.6564, 64.7942, 65.5004, 66.686, 67.291, 68.5672, 69.8556, 70.4982, 71.8204, 72.4252, 73.7744, 75.0786, 75.8344, 77.0294, 77.8098, 79.0794, 80.5732, 81.1878, 82.5648, 83.2902, 84.6784, 85.3352, 86.8946, 88.3712, 89.0852, 90.499, 91.2686, 92.6844, 94.2234, 94.9732, 96.3356, 97.2286, 98.7262, 100.3284, 101.1048, 102.5962, 103.3562, 105.1272, 106.4184, 107.4974, 109.0822, 109.856, 111.48, 113.2834, 114.0208, 115.637, 116.5174, 118.0576, 119.7476, 120.427, 122.1326, 123.2372, 125.2788, 126.6776, 127.7926, 129.1952, 129.9564, 131.6454, 133.87, 134.5428, 136.2, 137.0294, 138.6278, 139.6782, 141.792, 143.3516, 144.2832, 146.0394, 147.0748, 148.4912, 150.849, 151.696, 153.5404, 154.073, 156.3714, 157.7216, 158.7328, 160.4208, 161.4184, 163.9424, 165.2772, 166.411, 168.1308, 168.769, 170.9258, 172.6828, 173.7502, 175.706, 176.3886, 179.0186, 180.4518, 181.927, 183.4172, 184.4114, 186.033, 188.5124, 189.5564, 191.6008, 192.4172, 193.8044, 194.997, 197.4548, 198.8948, 200.2346, 202.3086, 203.1548, 204.8842, 206.6508, 206.6772, 209.7254, 210.4752, 212.7228, 214.6614, 215.1676, 217.793, 218.0006, 219.9052, 221.66, 223.5588, 225.1636, 225.6882, 227.7126, 229.4502, 231.1978, 232.9756, 233.1654, 236.727, 238.1974, 237.7474, 241.1346, 242.3048, 244.1948, 245.3134, 246.879, 249.1204, 249.853, 252.6792, 253.857, 254.4486, 257.2362, 257.9534, 260.0286, 260.5632, 262.663, 264.723, 265.7566, 267.2566, 267.1624, 270.62, 272.8216, 273.2166, 275.2056, 276.2202, 278.3726, 280.3344, 281.9284, 283.9728, 284.1924, 286.4872, 287.587, 289.807, 291.1206, 292.769, 294.8708, 296.665, 297.1182, 299.4012, 300.6352, 302.1354, 304.1756, 306.1606, 307.3462, 308.5214, 309.4134, 310.8352, 313.9684, 315.837, 316.7796, 318.9858,},

// precision 7

{92, 93.4934, 94.9758, 96.4574, 97.9718, 99.4954, 101.5302, 103.0756, 104.6374, 106.1782, 107.7888, 109.9522, 111.592, 113.2532, 114.9086, 116.5938, 118.9474, 120.6796, 122.4394, 124.2176, 125.9768, 128.4214, 130.2528, 132.0102, 133.8658, 135.7278, 138.3044, 140.1316, 142.093, 144.0032, 145.9092, 148.6306, 150.5294, 152.5756, 154.6508, 156.662, 159.552, 161.3724, 163.617, 165.5754, 167.7872, 169.8444, 172.7988, 174.8606, 177.2118, 179.3566, 181.4476, 184.5882, 186.6816, 189.0824, 191.0258, 193.6048, 196.4436, 198.7274, 200.957, 203.147, 205.4364, 208.7592, 211.3386, 213.781, 215.8028, 218.656, 221.6544, 223.996, 226.4718, 229.1544, 231.6098, 234.5956, 237.0616, 239.5758, 242.4878, 244.5244, 248.2146, 250.724, 252.8722, 255.5198, 258.0414, 261.941, 264.9048, 266.87, 269.4304, 272.028, 274.4708, 278.37, 281.0624, 283.4668, 286.5532, 289.4352, 293.2564, 295.2744, 298.2118, 300.7472, 304.1456, 307.2928, 309.7504, 312.5528, 315.979, 318.2102, 322.1834, 324.3494, 327.325, 330.6614, 332.903, 337.2544, 339.9042, 343.215, 345.2864, 348.0814, 352.6764, 355.301, 357.139, 360.658, 363.1732, 366.5902, 369.9538, 373.0828, 375.922, 378.9902, 382.7328, 386.4538, 388.1136, 391.2234, 394.0878, 396.708, 401.1556, 404.1852, 406.6372, 409.6822, 412.7796, 416.6078, 418.4916, 422.131, 424.5376, 428.1988, 432.211, 434.4502, 438.5282, 440.912, 444.0448, 447.7432, 450.8524, 453.7988, 456.7858, 458.8868, 463.9886, 466.5064, 468.9124, 472.6616, 475.4682, 478.582, 481.304, 485.2738, 488.6894, 490.329, 496.106, 497.6908, 501.1374, 504.5322, 506.8848, 510.3324, 513.4512, 516.179, 520.4412, 522.6066, 526.167, 528.7794, 533.379, 536.067, 538.46, 542.9116, 545.692, 547.9546, 552.493, 555.2722, 557.335, 562.449, 564.2014, 569.0738, 571.0974, 574.8564, 578.2996, 581.409, 583.9704, 585.8098, 589.6528, 594.5998, 595.958, 600.068, 603.3278, 608.2016, 609.9632, 612.864, 615.43, 620.7794, 621.272, 625.8644, 629.206, 633.219, 634.5154, 638.6102,},

// precision 8

{184.2152, 187.2454, 190.2096, 193.6652, 196.6312, 199.6822, 203.249, 206.3296, 210.0038, 213.2074, 216.4612, 220.27, 223.5178, 227.4412, 230.8032, 234.1634, 238.1688, 241.6074, 245.6946, 249.2664, 252.8228, 257.0432, 260.6824, 264.9464, 268.6268, 272.2626, 276.8376, 280.4034, 284.8956, 288.8522, 292.7638, 297.3552, 301.3556, 305.7526, 309.9292, 313.8954, 318.8198, 322.7668, 327.298, 331.6688, 335.9466, 340.9746, 345.1672, 349.3474, 354.3028, 358.8912, 364.114, 368.4646, 372.9744, 378.4092, 382.6022, 387.843, 392.5684, 397.1652, 402.5426, 407.4152, 412.5388, 417.3592, 422.1366, 427.486, 432.3918, 437.5076, 442.509, 447.3834, 453.3498, 458.0668, 463.7346, 469.1228, 473.4528, 479.7, 484.644, 491.0518, 495.5774, 500.9068, 506.432, 512.1666, 517.434, 522.6644, 527.4894, 533.6312, 538.3804, 544.292, 550.5496, 556.0234, 562.8206, 566.6146, 572.4188, 579.117, 583.6762, 590.6576, 595.7864, 601.509, 607.5334, 612.9204, 619.772, 624.2924, 630.8654, 636.1836,

642.745, 649.1316, 655.0386, 660.0136, 666.6342, 671.6196, 678.1866, 684.4282, 689.3324, 695.4794, 702.5038, 708.129, 713.528, 720.3204, 726.463, 732.7928, 739.123, 744.7418, 751.2192, 756.5102, 762.6066, 769.0184, 775.2224, 781.4014, 787.7618, 794.1436, 798.6506, 805.6378, 811.766, 819.7514, 824.5776, 828.7322, 837.8048, 843.6302, 849.9336, 854.4798, 861.3388, 867.9894, 873.8196, 880.3136, 886.2308, 892.4588, 899.0816, 905.4076, 912.0064, 917.3878, 923.619, 929.998, 937.3482, 943.9506, 947.991, 955.1144, 962.203, 968.8222, 975.7324, 981.7826, 988.7666, 994.2648, 1000.3128, 1007.4082, 1013.7536, 1020.3376, 1026.7156, 1031.7478, 1037.4292, 1045.393, 1051.2278, 1058.3434, 1062.8726, 1071.884, 1076.806, 1082.9176, 1089.1678, 1095.5032, 1102.525, 1107.2264, 1115.315, 1120.93, 1127.252, 1134.1496, 1139.0408, 1147.5448, 1153.3296, 1158.1974, 1166.5262, 1174.3328, 1175.657, 1184.4222, 1190.9172, 1197.1292, 1204.4606, 1210.4578, 1218.8728, 1225.3336, 1226.6592, 1236.5768, 1241.363, 1249.4074, 1254.6566, 1260.8014, 1266.5454, 1274.5192,},

// precision 9

{369, 374.8294, 381.2452, 387.6698, 394.1464, 400.2024, 406.8782, 413.6598, 420.462, 427.2826, 433.7102, 440.7416, 447.9366, 455.1046, 462.285, 469.0668, 476.306, 483.8448, 491.301, 498.9886, 506.2422, 513.8138, 521.7074, 529.7428, 537.8402, 545.1664, 553.3534, 561.594, 569.6886, 577.7876, 585.65, 594.228, 602.8036, 611.1666, 620.0818, 628.0824, 637.2574, 646.302, 655.1644, 664.0056, 672.3802, 681.7192, 690.5234, 700.2084, 708.831, 718.485, 728.1112, 737.4764, 746.76, 756.3368, 766.5538, 775.5058, 785.2646, 795.5902, 804.3818, 814.8998, 824.9532, 835.2062, 845.2798, 854.4728, 864.9582, 875.3292, 886.171, 896.781, 906.5716, 916.7048, 927.5322, 937.875, 949.3972, 958.3464, 969.7274, 980.2834, 992.1444, 1003.4264, 1013.0166, 1024.018, 1035.0438, 1046.34, 1057.6856, 1068.9836, 1079.0312, 1091.677, 1102.3188, 1113.4846, 1124.4424, 1135.739, 1147.1488, 1158.9202, 1169.406, 1181.5342, 1193.2834, 1203.8954, 1216.3286, 1226.2146, 1239.6684, 1251.9946, 1262.123, 1275.4338, 1285.7378, 1296.076, 1308.9692, 1320.4964, 1333.0998, 1343.9864, 1357.7754, 1368.3208, 1380.4838, 1392.7388, 1406.0758, 1416.9098, 1428.9728, 1440.9228, 1453.9292, 1462.617, 1476.05, 1490.2996, 1500.6128, 1513.7392, 1524.5174, 1536.6322, 1548.2584, 1562.3766, 1572.423, 1587.1232, 1596.5164, 1610.5938, 1622.5972, 1633.1222, 1647.7674, 1658.5044, 1671.57, 1683.7044, 1695.4142, 1708.7102, 1720.6094, 1732.6522, 1747.841, 1756.4072, 1769.9786, 1782.3276, 1797.5216, 1808.3186, 1819.0694, 1834.354, 1844.575, 1856.2808, 1871.1288, 1880.7852, 1893.9622, 1906.3418, 1920.6548, 1932.9302, 1945.8584, 1955.473, 1968.8248, 1980.6446, 1995.9598, 2008.349, 2019.8556, 2033.0334, 2044.0206, 2059.3956, 2069.9174, 2082.6084, 2093.7036, 2106.6108, 2118.9124, 2132.301, 2144.7628, 2159.8422, 2171.0212, 2183.101, 2193.5112, 2208.052, 2221.3194, 2233.3282, 2247.295, 2257.7222, 2273.342, 2286.5638, 2299.6786, 2310.8114, 2322.3312, 2335.516, 2349.874, 2363.5968, 2373.865, 2387.1918, 2401.8328, 2414.8496, 2424.544, 2436.7592, 2447.1682, 2464.1958, 2474.3438, 2489.0006, 2497.4526, 2513.6586, 2527.19, 2540.7028, 2553.768,},

// precision 10

{738.1256, 750.4234, 763.1064, 775.4732, 788.4636, 801.0644, 814.488, 827.9654, 841.0832, 854.7864, 868.1992, 882.2176, 896.5228, 910.1716, 924.7752, 938.899, 953.6126, 968.6492, 982.9474, 998.5214, 1013.1064, 1028.6364, 1044.2468, 1059.4588, 1075.3832, 1091.0584, 1106.8606, 1123.3868, 1139.5062, 1156.1862, 1172.463, 1189.339, 1206.1936, 1223.1292, 1240.1854, 1257.2908, 1275.3324, 1292.8518, 1310.5204, 1328.4854, 1345.9318, 1364.552, 1381.4658, 1400.4256, 1419.849, 1438.152, 1456.8956, 1474.8792, 1494.118, 1513.62, 1532.5132, 1551.9322, 1570.7726, 1590.6086, 1610.5332, 1630.5918, 1650.4294, 1669.7662, 1690.4106, 1710.7338, 1730.9012, 1750.4486, 1770.1556, 1791.6338, 1812.7312, 1833.6264, 1853.9526, 1874.8742, 1896.8326, 1918.1966, 1939.5594, 1961.07, 1983.037, 2003.1804, 2026.071, 2047.4884, 2070.0848, 2091.2944, 2114.333, 2135.9626, 2158.2902, 2181.0814, 2202.0334, 2224.4832, 2246.39, 2269.7202, 2292.1714, 2314.2358, 2338.9346, 2360.891, 2384.0264, 2408.3834, 2430.1544, 2454.8684, 2476.9896, 2501.4368, 2522.8702, 2548.0408, 2570.6738, 2593.5208, 2617.0158, 2640.2302, 2664.0962, 2687.4986, 2714.2588, 2735.3914, 2759.6244, 2781.8378, 2808.0072, 2830.6516, 2856.2454, 2877.2136, 2903.4546, 2926.785, 2951.2294, 2976.468, 3000.867, 3023.6508, 3049.91, 3073.5984, 3098.162, 3121.5564, 3146.2328, 3170.9484, 3195.5902, 3221.3346, 3242.7032, 3271.6112, 3296.5546, 3317.7376, 3345.072, 3369.9518, 3394.326, 3418.1818, 3444.6926, 3469.086, 3494.2754, 3517.8698, 3544.248, 3565.3768, 3588.7234, 3616.979, 3643.7504, 3668.6812, 3695.72, 3719.7392, 3742.6224, 3770.4456, 3795.6602, 3819.9058, 3844.002, 3869.517, 3895.6824, 3920.8622, 3947.1364, 3973.985, 3995.4772, 4021.62,

4046.628, 4074.65, 4096.2256, 4121.831, 4146.6406, 4173.276, 4195.0744, 4223.9696, 4251.3708, 4272.9966, 4300.8046, 4326.302, 4353.1248, 4374.312, 4403.0322, 4426.819, 4450.0598, 4478.5206, 4504.8116, 4528.8928, 4553.9584, 4578.8712, 4603.8384, 4632.3872, 4655.5128, 4675.821, 4704.6222, 4731.9862, 4755.4174, 4781.2628, 4804.332, 4832.3048, 4862.8752, 4883.4148, 4906.9544, 4935.3516, 4954.3532, 4984.0248, 5011.217, 5035.3258, 5057.3672, 5084.1828,},

// precision 11

{1477, 1501.6014, 1526.5802, 1551.7942, 1577.3042, 1603.2062, 1629.8402, 1656.2292, 1682.9462, 1709.9926, 1737.3026, 1765.4252, 1793.0578, 1821.6092, 1849.626, 1878.5568, 1908.527, 1937.5154, 1967.1874, 1997.3878, 2027.37, 2058.1972, 2089.5728, 2120.1012, 2151.9668, 2183.292, 2216.0772, 2247.8578, 2280.6562, 2313.041, 2345.714, 2380.3112, 2414.1806, 2447.9854, 2481.656, 2516.346, 2551.5154, 2586.8378, 2621.7448, 2656.6722, 2693.5722, 2729.1462, 2765.4124, 2802.8728, 2838.898, 2876.408, 2913.4926, 2951.4938, 2989.6776, 3026.282, 3065.7704, 3104.1012, 3143.7388, 3181.6876, 3221.1872, 3261.5048, 3300.0214, 3339.806, 3381.409, 3421.4144, 3461.4294, 3502.2286, 3544.651, 3586.6156, 3627.337, 3670.083, 3711.1538, 3753.5094, 3797.01, 3838.6686, 3882.1678, 3922.8116, 3967.9978, 4009.9204, 4054.3286, 4097.5706, 4140.6014, 4185.544, 4229.5976, 4274.583, 4316.9438, 4361.672, 4406.2786, 4451.8628, 4496.1834, 4543.505, 4589.1816, 4632.5188, 4678.2294, 4724.8908, 4769.0194, 4817.052, 4861.4588, 4910.1596, 4956.4344, 5002.5238, 5048.13, 5093.6374, 5142.8162, 5187.7894, 5237.3984, 5285.6078, 5331.0858, 5379.1036, 5428.6258, 5474.6018, 5522.7618, 5571.5822, 5618.59, 5667.9992, 5714.88, 5763.454, 5808.6982, 5860.3644, 5910.2914, 5953.571, 6005.9232, 6055.1914, 6104.5882, 6154.5702, 6199.7036, 6251.1764, 6298.7596, 6350.0302, 6398.061, 6448.4694, 6495.933, 6548.0474, 6597.7166, 6646.9416, 6695.9208, 6742.6328, 6793.5276, 6842.1934, 6894.2372, 6945.3864, 6996.9228, 7044.2372, 7094.1374, 7142.2272, 7192.2942, 7238.8338, 7288.9006, 7344.0908, 7394.8544, 7443.5176, 7490.4148, 7542.9314, 7595.6738, 7641.9878, 7694.3688, 7743.0448, 7797.522, 7845.53, 7899.594, 7950.3132, 7996.455, 8050.9442, 8092.9114, 8153.1374, 8197.4472, 8252.8278, 8301.8728, 8348.6776, 8401.4698, 8453.551, 8504.6598, 8553.8944, 8604.1276, 8657.6514, 8710.3062, 8758.908, 8807.8706, 8862.1702, 8910.4668, 8960.77, 9007.2766, 9063.164, 9121.0534, 9164.1354, 9218.1594, 9267.767, 9319.0594, 9372.155, 9419.7126, 9474.3722, 9520.1338, 9572.368, 9622.7702, 9675.8448, 9726.5396, 9778.7378, 9827.6554, 9878.1922, 9928.7782, 9978.3984, 10026.578, 10076.5626, 10137.1618, 10177.5244, 10229.9176,},

// precision 12

{2954, 3003.4782, 3053.3568, 3104.3666, 3155.324, 3206.9598, 3259.648, 3312.539, 3366.1474, 3420.2576, 3474.8376, 3530.6076, 3586.451, 3643.38, 3700.4104, 3757.5638, 3815.9676, 3875.193, 3934.838, 3994.8548, 4055.018, 4117.1742, 4178.4482, 4241.1294, 4304.4776, 4367.4044, 4431.8724, 4496.3732, 4561.4304, 4627.5326, 4693.949, 4761.5532, 4828.7256, 4897.6182, 4965.5186, 5034.4528, 5104.865, 5174.7164, 5244.6828, 5316.6708, 5387.8312, 5459.9036, 5532.476, 5604.8652, 5679.6718, 5753.757, 5830.2072, 5905.2828, 5980.0434, 6056.6264, 6134.3192, 6211.5746, 6290.0816, 6367.1176, 6447.9796, 6526.5576, 6606.1858, 6686.9144, 6766.1142, 6847.0818, 6927.9664, 7010.9096, 7091.0816, 7175.3962, 7260.3454, 7344.018, 7426.4214, 7511.3106, 7596.0686, 7679.8094, 7765.818, 7852.4248, 7936.834, 8022.363, 8109.5066, 8200.4554, 8288.5832, 8373.366, 8463.4808, 8549.7682, 8642.0522, 8728.3288, 8820.9528, 8907.727, 9001.0794, 9091.2522, 9179.988, 9269.852, 9362.6394, 9453.642, 9546.9024, 9640.6616, 9732.6622, 9824.3254, 9917.7484, 10007.9392, 10106.7508, 10196.2152, 10289.8114, 10383.5494, 10482.3064, 10576.8734, 10668.7872, 10764.7156, 10862.0196, 10952.793, 11049.9748, 11146.0702, 11241.4492, 11339.2772, 11434.2336, 11530.741, 11627.6136, 11726.311, 11821.5964, 11918.837, 12015.3724, 12113.0162, 12213.0424, 12306.9804, 12408.4518, 12504.8968, 12604.586, 12700.9332, 12798.705, 12898.5142, 12997.0488, 13094.788, 13198.475, 13292.7764, 13392.9698, 13486.8574, 13590.1616, 13686.5838, 13783.6264, 13887.2638, 13992.0978, 14081.0844, 14189.9956, 14280.0912, 14382.4956, 14486.4384, 14588.1082, 14686.2392, 14782.276, 14888.0284, 14985.1864, 15088.8596, 15187.0998, 15285.027, 15383.6694, 15495.8266, 15591.3736, 15694.2008, 15790.3246, 15898.4116, 15997.4522, 16095.5014, 16198.8514, 16291.7492, 16402.6424, 16499.1266, 16606.2436, 16697.7186, 16796.3946, 16902.3376, 17005.7672, 17100.814, 17206.8282, 17305.8262, 17416.0744, 17508.4092, 17617.0178, 17715.4554, 17816.758, 17920.1748, 18012.9236, 18119.7984, 18223.2248, 18324.2482, 18426.6276, 18525.0932, 18629.8976, 18733.2588, 18831.0466,

18940.1366, 19032.2696, 19131.729, 19243.4864, 19349.6932, 19442.866, 19547.9448, 19653.2798, 19754.4034, 19854.0692, 19965.1224, 20065.1774, 20158.2212, 20253.353, 20366.3264, 20463.22,},

// precision 13

{5908.5052, 6007.2672, 6107.347, 6208.5794, 6311.2622, 6414.5514, 6519.3376, 6625.6952, 6732.5988, 6841.3552, 6950.5972, 7061.3082, 7173.5646, 7287.109, 7401.8216, 7516.4344, 7633.3802, 7751.2962, 7870.3784, 7990.292, 8110.79, 8233.4574, 8356.6036, 8482.2712, 8607.7708, 8735.099, 8863.1858, 8993.4746, 9123.8496, 9255.6794, 9388.5448, 9522.7516, 9657.3106, 9792.6094, 9930.5642, 10068.794, 10206.7256, 10347.81, 10490.3196, 10632.0778, 10775.9916, 10920.4662, 11066.124, 11213.073, 11358.0362, 11508.1006, 11659.1716, 11808.7514, 11959.4884, 12112.1314, 12265.037, 12420.3756, 12578.933, 12734.311, 12890.0006, 13047.2144, 13207.3096, 13368.5144, 13528.024, 13689.847, 13852.7528, 14018.3168, 14180.5372, 14346.9668, 14513.5074, 14677.867, 14846.2186, 15017.4186, 15184.9716, 15356.339, 15529.2972, 15697.3578, 15871.8686, 16042.187, 16216.4094, 16389.4188, 16565.9126, 16742.3272, 16919.0042, 17094.7592, 17273.965, 17451.8342, 17634.4254, 17810.5984, 17988.9242, 18171.051, 18354.7938, 18539.466, 18721.0408, 18904.9972, 19081.867, 19271.9118, 19451.8694, 19637.9816, 19821.2922, 20013.1292, 20199.3858, 20387.8726, 20572.9514, 20770.7764, 20955.1714, 21144.751, 21329.9952, 21520.709, 21712.7016, 21906.3868, 22096.2626, 22286.0524, 22475.051, 22665.5098, 22862.8492, 23055.5294, 23249.6138, 23437.848, 23636.273, 23826.093, 24020.3296, 24213.3896, 24411.7392, 24602.9614, 24805.7952, 24998.1552, 25193.9588, 25389.0166, 25585.8392, 25780.6976, 25981.2728, 26175.977, 26376.5252, 26570.1964, 26773.387, 26962.9812, 27163.0586, 27368.164, 27565.0534, 27758.7428, 27961.1276, 28163.2324, 28362.3816, 28565.7668, 28758.644, 28956.9768, 29163.4722, 29354.7026, 29561.1186, 29767.9948, 29959.9986, 30164.0492, 30366.9818, 30562.5338, 30762.9928, 30976.1592, 31166.274, 31376.722, 31570.3734, 31770.809, 31974.8934, 32179.5286, 32387.5442, 32582.3504, 32794.076, 32989.9528, 33191.842, 33392.4684, 33595.659, 33801.8672, 34000.3414, 34200.0922, 34402.6792, 34610.0638, 34804.0084, 35011.13, 35218.669, 35418.6634, 35619.0792, 35830.6534, 36028.4966, 36229.7902, 36438.6422, 36630.7764, 36833.3102, 37048.6728, 37247.3916, 37453.5904, 37669.3614, 37854.5526, 38059.305, 38268.0936, 38470.2516, 38674.7064, 38876.167, 39068.3794, 39281.9144, 39492.8566, 39684.8628, 39898.4108, 40093.1836, 40297.6858, 40489.7086, 40717.2424,},

// precision 14

{11817.475, 12015.0046, 12215.3792, 12417.7504, 12623.1814, 12830.0086, 13040.0072, 13252.503, 13466.178, 13683.2738, 13902.0344, 14123.9798, 14347.394, 14573.7784, 14802.6894, 15033.6824, 15266.9134, 15502.8624, 15741.4944, 15980.7956, 16223.8916, 16468.6316, 16715.733, 16965.5726, 17217.204, 17470.666, 17727.8516, 17986.7886, 18247.6902, 18510.9632, 18775.304, 19044.7486, 19314.4408, 19587.202, 19862.2576, 20135.924, 20417.0324, 20697.9788, 20979.6112, 21265.0274, 21550.723, 21841.6906, 22132.162, 22428.1406, 22722.127, 23020.5606, 23319.7394, 23620.4014, 23925.2728, 24226.9224, 24535.581, 24845.505, 25155.9618, 25470.3828, 25785.9702, 26103.7764, 26420.4132, 26742.0186, 27062.8852, 27388.415, 27714.6024, 28042.296, 28365.4494, 28701.1526, 29031.8008, 29364.2156, 29704.497, 30037.1458, 30380.111, 30723.8168, 31059.5114, 31404.9498, 31751.6752, 32095.2686, 32444.7792, 32794.767, 33145.204, 33498.4226, 33847.6502, 34209.006, 34560.849, 34919.4838, 35274.9778, 35635.1322, 35996.3266, 36359.1394, 36722.8266, 37082.8516, 37447.7354, 37815.9606, 38191.0692, 38559.4106, 38924.8112, 39294.6726, 39663.973, 40042.261, 40416.2036, 40779.2036, 41161.6436, 41540.9014, 41921.1998, 42294.7698, 42678.5264, 43061.3464, 43432.375, 43818.432, 44198.6598, 44583.0138, 44970.4794, 45353.924, 45729.858, 46118.2224, 46511.5724, 46900.7386, 47280.6964, 47668.1472, 48055.6796, 48446.9436, 48838.7146, 49217.7296, 49613.7796, 50010.7508, 50410.0208, 50793.7886, 51190.2456, 51583.1882, 51971.0796, 52376.5338, 52763.319, 53165.5534, 53556.5594, 53948.2702, 54346.352, 54748.7914, 55138.577, 55543.4824, 55941.1748, 56333.7746, 56745.1552, 57142.7944, 57545.2236, 57935.9956, 58348.5268, 58737.5474, 59158.5962, 59542.6896, 59958.8004, 60349.3788, 60755.0212, 61147.6144, 61548.194, 61946.0696, 62348.6042, 62763.603, 63162.781, 63560.635, 63974.3482, 64366.4908, 64771.5876, 65176.7346, 65597.3916, 65995.915, 66394.0384, 66822.9396, 67203.6336, 67612.2032, 68019.0078, 68420.0388, 68821.22, 69235.8388, 69640.0724, 70055.155, 70466.357, 70863.4266, 71276.2482, 71677.0306, 72080.2006, 72493.0214, 72893.5952, 73314.5856, 73714.9852, 74125.3022, 74521.2122, 74933.6814, 75341.5904, 75743.0244,



76166.0278, 76572.1322, 76973.1028, 77381.6284, 77800.6092, 78189.328, 78607.0962, 79012.2508, 79407.8358, 79825.725, 80238.701, 80646.891, 81035.6436, 81460.0448, 81876.3884,},

// precision 15

{23635.0036, 24030.8034, 24431.4744, 24837.1524, 25246.7928, 25661.326, 26081.3532, 26505.2806, 26933.9892, 27367.7098, 27805.318, 28248.799, 28696.4382, 29148.8244, 29605.5138, 30066.8668, 30534.2344, 31006.32, 31480.778, 31962.2418, 32447.3324, 32938.0232, 33432.731, 33930.728, 34433.9896, 34944.1402, 35457.5588, 35974.5958, 36497.3296, 37021.9096, 37554.326, 38088.0826, 38628.8816, 39171.3192, 39723.2326, 40274.5554, 40832.3142, 41390.613, 41959.5908, 42532.5466, 43102.0344, 43683.5072, 44266.694, 44851.2822, 45440.7862, 46038.0586, 46640.3164, 47241.064, 47846.155, 48454.7396, 49076.9168, 49692.542, 50317.4778, 50939.65, 51572.5596, 52210.2906, 52843.7396, 53481.3996, 54127.236, 54770.406, 55422.6598, 56078.7958, 56736.7174, 57397.6784, 58064.5784, 58730.308, 59404.9784, 60077.0864, 60751.9158, 61444.1386, 62115.817, 62808.7742, 63501.4774, 64187.5454, 64883.6622, 65582.7468, 66274.5318, 66976.9276, 67688.7764, 68402.138, 69109.6274, 69822.9706, 70543.6108, 71265.5202, 71983.3848, 72708.4656, 73433.384, 74158.4664, 74896.4868, 75620.9564, 76362.1434, 77098.3204, 77835.7662, 78582.6114, 79323.9902, 80067.8658, 80814.9246, 81567.0136, 82310.8536, 83061.9952, 83821.4096, 84580.8608, 85335.547, 86092.5802, 86851.6506, 87612.311, 88381.2016, 89146.3296, 89907.8974, 90676.846, 91451.4152, 92224.5518, 92995.8686, 93763.5066, 94551.2796, 95315.1944, 96096.1806, 96881.0918, 97665.679, 98442.68, 99229.3002, 100011.0994, 100790.6386, 101580.1564, 102377.7484, 103152.1392, 103944.2712, 104730.216, 105528.6336, 106324.9398, 107117.6706, 107890.3988, 108695.2266, 109485.238, 110294.7876, 111075.0958, 111878.0496, 112695.2864, 113464.5486, 114270.0474, 115068.608, 115884.3626, 116673.2588, 117483.3716, 118275.097, 119085.4092, 119879.2808, 120687.5868, 121499.9944, 122284.916, 123095.9254, 123912.5038, 124709.0454, 125503.7182, 126323.259, 127138.9412, 127943.8294, 128755.646, 129556.5354, 130375.3298, 131161.4734, 131971.1962, 132787.5458, 133588.1056, 134431.351, 135220.2906, 136023.398, 136846.6558, 137667.0004, 138463.663, 139283.7154, 140074.6146, 140901.3072, 141721.8548, 142543.2322, 143356.1096, 144173.7412, 144973.0948, 145794.3162, 146609.5714, 147420.003, 148237.9784, 149050.5696, 149854.761, 150663.1966, 151494.0754, 152313.1416, 153112.6902, 153935.7206, 154746.9262, 155559.547, 156401.9746, 157228.7036, 158008.7254, 158820.75, 159646.9184, 160470.4458, 161279.5348, 162093.3114, 162918.542, 163729.2842,},

// precision 16

{47271, 48062.3584, 48862.7074, 49673.152, 50492.8416, 51322.9514, 52161.03, 53009.407, 53867.6348, 54734.206, 55610.5144, 56496.2096, 57390.795, 58297.268, 59210.6448, 60134.665, 61068.0248, 62010.4472, 62962.5204, 63923.5742, 64895.0194, 65876.4182, 66862.6136, 67862.6968, 68868.8908, 69882.8544, 70911.271, 71944.0924, 72990.0326, 74040.692, 75100.6336, 76174.7826, 77252.5998, 78340.2974, 79438.2572, 80545.4976, 81657.2796, 82784.6336, 83915.515, 85059.7362, 86205.9368, 87364.4424, 88530.3358, 89707.3744, 90885.9638, 92080.197, 93275.5738, 94479.391, 95695.918, 96919.2236, 98148.4602, 99382.3474, 100625.6974, 101878.0284, 103141.6278, 104409.4588, 105686.2882, 106967.5402, 108261.6032, 109548.1578, 110852.0728, 112162.231, 113479.0072, 114806.2626, 116137.9072, 117469.5048, 118813.5186, 120165.4876, 121516.2556, 122875.766, 124250.5444, 125621.2222, 127003.2352, 128387.848, 129775.2644, 131181.7776, 132577.3086, 133979.9458, 135394.1132, 136800.9078, 138233.217, 139668.5308, 141085.212, 142535.2122, 143969.0684, 145420.2872, 146878.1542, 148332.7572, 149800.3202, 151269.66, 152743.6104, 154213.0948, 155690.288, 157169.4246, 158672.1756, 160160.059, 161650.6854, 163145.7772, 164645.6726, 166159.1952, 167682.1578, 169177.3328, 170700.0118, 172228.8964, 173732.6664, 175265.5556, 176787.799, 178317.111, 179856.6914, 181400.865, 182943.4612, 184486.742, 186033.4698, 187583.7886, 189148.1868, 190688.4526, 192250.1926, 193810.9042, 195354.2972, 196938.7682, 198493.5898, 200079.2824, 201618.912, 203205.5492, 204765.5798, 206356.1124, 207929.3064, 209498.7196, 211086.229, 212675.1324, 214256.7892, 215826.2392, 217412.8474, 218995.6724, 220618.6038, 222207.1166, 223781.0364, 225387.4332, 227005.7928, 228590.4336, 230217.8738, 231805.1054, 233408.9, 234995.3432, 236601.4956, 238190.7904, 239817.2548, 241411.2832, 243002.4066, 244640.1884, 246255.3128, 247849.3508, 249479.9734, 251106.8822, 252705.027, 254332.9242, 255935.129, 257526.9014, 259154.772, 260777.625, 262390.253, 264004.4906, 265643.59, 267255.4076, 268873.426, 270470.7252,

272106.4804, 273722.4456, 275337.794, 276945.7038, 278592.9154, 280204.3726, 281841.1606, 283489.171, 285130.1716, 286735.3362, 288364.7164, 289961.1814, 291595.5524, 293285.683, 294899.6668, 296499.3434, 298128.0462, 299761.8946, 301394.2424, 302997.6748, 304615.1478, 306269.7724, 307886.114, 309543.1028, 311153.2862, 312782.8546, 314421.2008, 316033.2438, 317692.9636, 319305.2648, 320948.7406, 322566.3364, 324228.4224, 325847.1542,},

// precision 17

{94542, 96125.811, 97728.019, 99348.558, 100987.9705, 102646.7565, 104324.5125, 106021.7435, 107736.7865, 109469.272, 111223.9465, 112995.219, 114787.432, 116593.152, 118422.71, 120267.2345, 122134.6765, 124020.937, 125927.2705, 127851.255, 129788.9485, 131751.016, 133726.8225, 135722.592, 137736.789, 139770.568, 141821.518, 143891.343, 145982.1415, 148095.387, 150207.526, 152355.649, 154515.6415, 156696.05, 158887.7575, 161098.159, 163329.852, 165569.053, 167837.4005, 170121.6165, 172420.4595, 174732.6265, 177062.77, 179412.502, 181774.035, 184151.939, 186551.6895, 188965.691, 191402.8095, 193857.949, 196305.0775, 198774.6715, 201271.2585, 203764.78, 206299.3695, 208818.1365, 211373.115, 213946.7465, 216532.076, 219105.541, 221714.5375, 224337.5135, 226977.5125, 229613.0655, 232270.2685, 234952.2065, 237645.3555, 240331.1925, 243034.517, 245756.0725, 248517.6865, 251232.737, 254011.3955, 256785.995, 259556.44, 262368.335, 265156.911, 267965.266, 270785.583, 273616.0495, 276487.4835, 279346.639, 282202.509, 285074.3885, 287942.2855, 290856.018, 293774.0345, 296678.5145, 299603.6355, 302552.6575, 305492.9785, 308466.8605, 311392.581, 314347.538, 317319.4295, 320285.9785, 323301.7325, 326298.3235, 329301.3105, 332301.987, 335309.791, 338370.762, 341382.923, 344431.1265, 347464.1545, 350507.28, 353619.2345, 356631.2005, 359685.203, 362776.7845, 365886.488, 368958.2255, 372060.6825, 375165.4335, 378237.935, 381328.311, 384430.5225, 387576.425, 390683.242, 393839.648, 396977.8425, 400101.9805, 403271.296, 406409.8425, 409529.5485, 412678.7, 415847.423, 419020.8035, 422157.081, 425337.749, 428479.6165, 431700.902, 434893.1915, 438049.582, 441210.5415, 444379.2545, 447577.356, 450741.931, 453959.548, 457137.0935, 460329.846, 463537.4815, 466732.3345, 469960.5615, 473164.681, 476347.6345, 479496.173, 482813.1645, 486025.6995, 489249.4885, 492460.1945, 495675.8805, 498908.0075, 502131.802, 505374.3855, 508550.9915, 511806.7305, 515026.776, 518217.0005, 521523.9855, 524705.9855, 527950.997, 531210.0265, 534472.497, 537750.7315, 540926.922, 544207.094, 547429.4345, 550666.3745, 553975.3475, 557150.7185, 560399.6165, 563662.697, 566916.7395, 570146.1215, 573447.425, 576689.6245, 579874.5745, 583202.337, 586503.0255, 589715.635, 592910.161, 596214.3885, 599488.035, 602740.92, 605983.0685, 609248.67, 612491.3605, 615787.912, 619107.5245, 622307.9555, 625577.333, 628840.4385, 632085.2155, 635317.6135, 638691.7195, 641887.467, 645139.9405, 648441.546, 651666.252, 654941.845,},

// precision 18

{189084, 192250.913, 195456.774, 198696.946, 201977.762, 205294.444, 208651.754, 212042.099, 215472.269, 218941.91, 222443.912, 225996.845, 229568.199, 233193.568, 236844.457, 240543.233, 244279.475, 248044.27, 251854.588, 255693.2, 259583.619, 263494.621, 267445.385, 271454.061, 275468.769, 279549.456, 283646.446, 287788.198, 291966.099, 296181.164, 300431.469, 304718.618, 309024.004, 313393.508, 317760.803, 322209.731, 326675.061, 331160.627, 335654.47, 340241.442, 344841.833, 349467.132, 354130.629, 358819.432, 363574.626, 368296.587, 373118.482, 377914.93, 382782.301, 387680.669, 392601.981, 397544.323, 402529.115, 407546.018, 412593.658, 417638.657, 422762.865, 427886.169, 433017.167, 438213.273, 443441.254, 448692.421, 453937.533, 459239.049, 464529.569, 469910.083, 475274.03, 480684.473, 486070.26, 491515.237, 496995.651, 502476.617, 507973.609, 513497.19, 519083.233, 524726.509, 530305.505, 535945.728, 541584.404, 547274.055, 552967.236, 558667.862, 564360.216, 570128.148, 575965.08, 581701.952, 587532.523, 593361.144, 599246.128, 605033.418, 610958.779, 616837.117, 622772.818, 628672.04, 634675.369, 640574.831, 646585.739, 652574.547, 658611.217, 664642.684, 670713.914, 676737.681, 682797.313, 688837.897, 694917.874, 701009.882, 707173.648, 713257.254, 719415.392, 725636.761, 731710.697, 737906.209, 744103.074, 750313.39, 756504.185, 762712.579, 768876.985, 775167.859, 781359, 787615.959, 793863.597, 800245.477, 806464.582, 812785.294, 819005.925, 825403.057, 831676.197, 837936.284, 844266.968,

```
850642.711, 856959.756, 863322.774, 869699.931, 876102.478, 882355.787, 888694.463, 895159.952,
901536.143, 907872.631, 914293.672, 920615.14, 927130.974, 933409.404, 939922.178, 946331.47, 952745.93,
959209.264, 965590.224, 972077.284, 978501.961, 984953.19, 991413.271, 997817.479, 1004222.658,
1010725.676, 1017177.138, 1023612.529, 1030098.236, 1036493.719, 1043112.207, 1049537.036, 1056008.096,
1062476.184, 1068942.337, 1075524.95, 1081932.864, 1088426.025, 1094776.005, 1101327.448, 1107901.673,
1114423.639, 1120884.602, 1127324.923, 1133794.24, 1140328.886, 1146849.376, 1153346.682, 1159836.502,
1166478.703, 1172953.304, 1179391.502, 1185950.982, 1192544.052, 1198913.41, 1205430.994, 1212015.525,
1218674.042, 1225121.683, 1231551.101, 1238126.379, 1244673.795, 1251260.649, 1257697.86, 1264320.983,
1270736.319, 1277274.694, 1283804.95, 1290211.514, 1296858.568, 1303455.691,}
};
```

```
static final double[][] biasData = {
    // precision 4
    {10, 9.717, 9.207, 8.7896, 8.2882, 7.8204, 7.3772, 6.9342, 6.5202, 6.161, 5.7722, 5.4636, 5.0396, 4.6766,
4.3566, 4.0454, 3.7936, 3.4856, 3.2666, 2.9946, 2.766, 2.4692, 2.3638, 2.0764, 1.7864, 1.7602, 1.4814, 1.433,
1.2926, 1.0664, 0.999600000000001, 0.7956, 0.5366, 0.589399999999998, 0.573799999999999,
0.269799999999996, 0.368200000000002, 0.0544000000000011, 0.234200000000001, 0.0108000000000033, -
0.2034000000000002, -0.0701999999999998, -0.1296000000000003, -0.364199999999997, -0.4806000000000003, -
0.226999999999997, -0.3228000000000001, -0.382599999999996, -0.511200000000002, -0.6696000000000003, -
0.7494000000000001, -0.500399999999999, -0.6176000000000003, -0.6922, -0.601599999999998, -
0.4162000000000003, -0.3382000000000001, -0.7826000000000002, -0.6486000000000002, -0.9198000000000002, -
0.851799999999997, -0.9624000000000002, -0.6402, -1.1922, -1.0256, -1.086, -1.21899999999999, -
0.8194000000000002, -0.9406000000000003, -1.1554, -1.2072, -1.1752, -1.16759999999999, -1.14019999999999, -
1.3754, -1.29859999999999, -1.607, -1.3292, -1.7606,},
    // precision 5
    {22, 21.1194, 20.8208, 20.2318, 19.77, 19.2436, 18.7774, 18.2848, 17.8224, 17.3742, 16.9336, 16.503,
16.0494, 15.6292, 15.2124, 14.798, 14.367, 13.9728, 13.5944, 13.217, 12.8438, 12.3696, 12.0956, 11.7044, 11.324,
11.0668, 10.6698, 10.3644, 10.049, 9.6918, 9.4146, 9.082, 8.687, 8.5398, 8.2462, 7.857, 7.6606, 7.4168, 7.1248,
6.9222, 6.6804, 6.447, 6.3454, 5.9594, 5.7636, 5.5776, 5.331, 5.19, 4.9676, 4.7564, 4.5314, 4.4442, 4.3708, 3.9774,
3.9624, 3.8796, 3.755, 3.472, 3.2076, 3.1024, 2.8908, 2.7338, 2.7728, 2.629, 2.413, 2.3266, 2.1524, 2.2642, 2.1806,
2.0566, 1.9192, 1.7598, 1.3516, 1.5802, 1.43859999999999, 1.491600000000001, 1.1524, 1.1892,
0.841399999999993, 0.8798000000000003, 0.837599999999995, 0.4698000000000006, 0.7656000000000006,
0.3310000000000003, 0.591399999999993, 0.6012000000000006, 0.701599999999999, 0.558199999999999,
0.339399999999998, 0.354399999999998, 0.4912000000000006, 0.3080000000000007, 0.355199999999996, -
0.02540000000000048, 0.2052000000000005, -0.272999999999996, 0.132199999999997, 0.3944000000000005, -
0.2412000000000006, 0.2420000000000004, 0.1914000000000002, 0.253799999999998, -0.122399999999999, -
0.3708000000000003, 0.1932000000000004, -0.08480000000000013, 0.0867999999999967, -0.3272000000000005, -
0.2856000000000002, 0.3114000000000006, -0.128399999999999, -0.754999999999995, -0.209199999999996, -
0.293599999999998, -0.3640000000000004, -0.2536000000000006, -0.8212000000000005, -0.2536000000000006, -
0.5104000000000004, -0.383399999999995, -0.491799999999998, -0.2202000000000006, -0.0972000000000008, -
0.5574000000000001, -0.114599999999996, -0.2950000000000002, -0.5348000000000004, 0.3463999999999988, -
0.653799999999999, 0.03980000000000138, 0.0341999999999985, -0.9958000000000003, -0.5234000000000009, -
0.4890000000000004, -0.274799999999999, -0.5749999999999989, -0.482799999999997, 0.0571999999999946, -
0.3306000000000004, -0.6288000000000012, -0.140199999999993, -0.5406000000000012, -0.445999999999998, -
0.5994000000000003, -0.262599999999992, 0.163399999999996, -0.1005999999999986, -0.3950000000000001, -
1.0696000000000001, -0.836399999999998, -0.753199999999993, -0.412399999999991, -0.7904000000000005, -
0.296799999999999, -0.2854000000000001, -0.1930000000000012, -0.07720000000000048, -0.9627999999999987, -
0.4148000000000014,},
```

// precision 6

{45, 44.1902, 43.271, 42.8358, 41.8142, 41.2854, 40.317, 39.354, 38.8924, 37.9436, 37.4596, 36.5262, 35.6248, 35.1574, 34.2822, 33.837, 32.9636, 32.074, 31.7042, 30.7976, 30.4772, 29.6564, 28.7942, 28.5004, 27.686, 27.291, 26.5672, 25.8556, 25.4982, 24.8204, 24.4252, 23.7744, 23.0786, 22.8344, 22.0294, 21.8098, 21.0794, 20.5732, 20.1878, 19.5648, 19.2902, 18.6784, 18.3352, 17.8946, 17.3712, 17.0852, 16.499, 16.2686, 15.6844, 15.2234, 14.9732, 14.3356, 14.2286, 13.7262, 13.3284, 13.1048, 12.5962, 12.3562, 12.1272, 11.4184, 11.4974, 11.0822, 10.856, 10.48, 10.2834, 10.0208, 9.637, 9.517399999999999, 9.057599999999999, 8.747600000000001, 8.427000000000001, 8.1326, 8.2372, 8.2788, 7.6776, 7.792599999999999, 7.1952, 6.9564, 6.6454, 6.87, 6.5428, 6.199999999999999, 6.029400000000001, 5.627800000000001, 5.6782, 5.792, 5.351599999999999, 5.283199999999999, 5.0394, 5.074800000000001, 4.491199999999999, 4.848999999999999, 4.696, 4.540400000000001, 4.073000000000001, 4.371399999999999, 3.7216, 3.7328, 3.420800000000001, 3.418399999999999, 3.942399999999999, 3.277199999999999, 3.411, 3.130799999999999, 2.769000000000001, 2.925800000000001, 2.682799999999999, 2.750200000000001, 2.705999999999999, 2.3886, 3.018599999999999, 2.451799999999999, 2.926999999999999, 2.417200000000001, 2.411399999999999, 2.032999999999999, 2.512400000000001, 2.5564, 2.600799999999999, 2.417200000000001, 1.804399999999999, 1.997000000000001, 2.454800000000001, 1.8948, 2.2346, 2.308600000000001, 2.154799999999999, 1.884199999999999, 1.6508, 0.677199999999999, 1.725400000000001, 1.4752, 1.722800000000001, 1.661399999999999, 1.167599999999999, 1.793000000000001, 1.000599999999999, 0.9052000000000008, 0.6599999999999997, 1.558799999999999, 1.1636, 0.6881999999999995, 0.7126000000000009, 0.4501999999999995, 1.1978, 0.9755999999999998, 0.1654000000000005, 1.727, 1.197399999999999, -0.2526000000000001, 1.134600000000001, 1.3048, 1.194799999999999, 0.3134000000000001, 0.8789999999999991, 1.120399999999999, 0.8530000000000009, 1.679200000000001, 0.856999999999999, 0.448599999999999, 1.2362, 0.9533999999999998, 1.0285999999999998, 0.5631999999999995, 0.6630000000000011, 0.7230000000000013, 0.7565999999999992, 0.2565999999999992, -0.8376000000000009, 0.6200000000000005, 0.8215999999999998, 0.2166000000000028, 0.2056000000000004, 0.2201999999999977, 0.3725999999999977, 0.3344000000000016, 0.9284000000000011, 0.9728000000000007, 0.1924000000000021, 0.4871999999999973, -0.4130000000000011, 0.8070000000000016, 0.1206000000000024, 0.7690000000000005, 0.8707999999999974, 0.6650000000000002, 0.1182000000000002, 0.4012000000000017, 0.6351999999999998, 0.1354000000000004, 0.1755999999999974, 1.160599999999999, 0.346200000000001, 0.5214000000000028, -0.5865999999999976, -1.164800000000001, 0.9683999999999974, 0.8369999999999989, 0.7796000000000016, 0.9857999999999983,},

// precision 7

{91, 89.4934, 87.9758, 86.4574, 84.9718, 83.4954, 81.5302, 80.0756, 78.6374, 77.1782, 75.7888, 73.9522, 72.592, 71.2532, 69.9086, 68.5938, 66.9474, 65.6796, 64.4394, 63.2176, 61.9768, 60.4214, 59.2528, 58.0102, 56.8658, 55.7278, 54.3044, 53.1316, 52.093, 51.0032, 49.9092, 48.6306, 47.5294, 46.5756, 45.6508, 44.662, 43.552, 42.3724, 41.617, 40.5754, 39.7872, 38.8444, 37.7988, 36.8606, 36.2118, 35.3566, 34.4476, 33.5882, 32.6816, 32.0824, 31.0258, 30.6048, 29.4436, 28.7274, 27.957, 27.147, 26.4364, 25.7592, 25.3386, 24.781, 23.8028, 23.656, 22.6544, 21.996, 21.4718, 21.1544, 20.6098, 19.5956, 19.0616, 18.5758, 18.4878, 17.5244, 17.2146, 16.724, 15.8722, 15.5198, 15.0414, 14.941, 14.9048, 13.87, 13.4304, 13.028, 12.4708, 12.37, 12.0624, 11.4668, 11.5532, 11.4352, 11.2564, 10.2744, 10.2118, 9.747200000000002, 10.1456, 9.2928, 8.750400000000001, 8.552799999999999, 8.978999999999998, 8.210199999999999, 8.183400000000001, 7.3494, 7.324999999999999, 7.661400000000001, 6.903000000000002, 7.254399999999998, 6.9042, 7.214999999999997, 6.286400000000001, 6.081399999999997, 6.6764, 6.300999999999999, 5.139000000000001, 5.658000000000002, 5.173200000000001, 4.590199999999998, 4.9538, 5.082800000000002, 4.922000000000003, 4.990200000000002, 4.7328, 5.4538, 4.113600000000002, 4.223400000000003, 4.087800000000002, 3.708000000000003, 4.155599999999999, 4.185200000000001, 3.637200000000001, 3.682200000000002, 3.779600000000002, 3.6078, 2.491600000000001, 3.130999999999997, 2.5376, 3.198800000000001, 3.211000000000001, 2.4502, 3.528200000000003, 2.911999999999998, 3.044800000000001, 2.7432, 2.852399999999999, 2.798800000000003, 2.785799999999999, 1.886799999999999, 2.988600000000002, 2.506399999999999, 1.912399999999999, 2.661600000000002,

2.46820000000002, 1.58199999999999, 1.30399999999997, 2.27379999999999, 2.68939999999998,  
1.329000000000001, 3.10599999999999, 1.690800000000002, 2.137400000000001, 2.53219999999999,  
1.88479999999998, 1.332400000000001, 1.45119999999997, 1.17899999999997, 2.44119999999998,  
1.60659999999996, 2.167000000000003, 0.779400000000001, 2.379000000000002, 2.067000000000001,  
1.460000000000004, 2.911600000000002, 1.692000000000001, 0.9546000000000028, 2.493000000000005, 2.2722,  
1.335000000000004, 2.44899999999996, 1.201400000000004, 3.073800000000001, 2.09739999999999,  
2.856400000000001, 2.299600000000005, 2.40899999999999, 1.970400000000004, 0.809799999999996,  
1.65279999999996, 2.59979999999996, 0.95799999999997, 2.06799999999998, 2.327800000000002,  
4.20159999999998, 1.963200000000003, 1.864000000000003, 1.42999999999995, 3.779400000000001,  
1.272000000000005, 1.864400000000005, 2.206000000000002, 3.219000000000005, 1.5154, 2.610199999999996,},

// precision 8

{183.2152, 180.2454, 177.2096, 173.6652, 170.6312, 167.6822, 164.249, 161.3296, 158.0038, 155.2074,  
152.4612, 149.27, 146.5178, 143.4412, 140.8032, 138.1634, 135.1688, 132.6074, 129.6946, 127.2664, 124.8228,  
122.0432, 119.6824, 116.9464, 114.6268, 112.2626, 109.8376, 107.4034, 104.8956, 102.8522, 100.7638, 98.3552,  
96.3556, 93.7526, 91.9292, 89.8954, 87.8198, 85.7668, 83.298, 81.6688, 79.9466, 77.9746, 76.1672, 74.3474,  
72.3028, 70.8912, 69.114, 67.4646, 65.9744, 64.4092, 62.6022, 60.843, 59.5684, 58.1652, 56.5426, 55.4152,  
53.5388, 52.3592, 51.1366, 49.486, 48.3918, 46.5076, 45.509, 44.3834, 43.3498, 42.0668, 40.7346, 40.1228,  
38.4528, 37.7, 36.644, 36.0518, 34.5774, 33.9068, 32.432, 32.1666, 30.434, 29.6644, 28.4894, 27.6312, 26.3804,  
26.292, 25.54960000000001, 25.0234, 24.8206, 22.6146, 22.4188, 22.117, 20.6762, 20.6576, 19.7864, 19.509,  
18.5334, 17.9204, 17.772, 16.2924, 16.8654, 15.1836, 15.745, 15.1316, 15.0386, 14.0136, 13.6342, 12.6196,  
12.1866, 12.42819999999999, 11.3324, 10.47940000000001, 11.5038, 10.129, 9.528000000000002,  
10.32039999999999, 9.46299999999997, 9.792800000000006, 9.123000000000005, 8.741800000000001, 9.2192,  
7.510200000000005, 7.60659999999996, 7.018400000000004, 7.22239999999999, 7.40139999999997,  
6.76179999999999, 7.14359999999999, 5.650600000000005, 5.63779999999997, 5.76599999999996,  
6.75139999999999, 5.57759999999996, 3.732200000000003, 5.8048, 5.63019999999995, 4.93359999999996,  
3.47979999999995, 4.33879999999999, 3.989400000000005, 3.819600000000004, 3.31359999999995,  
3.230800000000004, 3.4588, 3.08159999999998, 3.4076, 3.00639999999999, 2.38779999999997,  
2.619000000000003, 1.998000000000005, 3.348200000000002, 2.950600000000001, 0.990999999999985,  
2.114400000000005, 2.20299999999997, 2.82219999999995, 2.73239999999998, 2.7826, 3.766600000000004,  
2.264800000000004, 2.312800000000004, 2.40819999999997, 2.753600000000001, 3.33759999999995,  
2.71559999999999, 1.747800000000001, 1.429200000000004, 2.393000000000003, 2.227799999999989,  
2.34339999999997, 0.87259999999992, 3.884000000000001, 1.806000000000004, 1.91759999999999,  
1.16779999999994, 1.503200000000011, 2.525000000000009, 0.226400000000012, 2.315000000000005,  
0.9300000000000064, 1.25199999999995, 2.14959999999996, 0.0407999999999902, 2.54479999999999,  
1.329600000000003, 0.197400000000016, 2.526200000000002, 3.33279999999991, -1.343000000000007,  
0.422199999999975, 0.9172000000000093, 1.129200000000008, 1.460600000000011, 1.45779999999991,  
2.872800000000001, 3.33359999999993, -1.34079999999994, 1.576800000000005, 0.3630000000000056,  
1.407400000000005, 0.6566000000000026, 0.8014000000000058, -0.4546000000000028, 1.519199999999996,},

// precision 9

{368, 361.8294, 355.2452, 348.6698, 342.1464, 336.2024, 329.8782, 323.6598, 317.462, 311.2826,  
305.7102, 299.7416, 293.9366, 288.1046, 282.285, 277.0668, 271.306, 265.8448, 260.301, 254.9886, 250.2422,  
244.8138, 239.7074, 234.7428, 229.8402, 225.1664, 220.3534, 215.594, 210.6886, 205.7876, 201.65, 197.228,  
192.8036, 188.1666, 184.0818, 180.0824, 176.2574, 172.302, 168.1644, 164.0056, 160.3802, 156.7192, 152.5234,  
149.2084, 145.831, 142.485, 139.1112, 135.4764, 131.76, 129.3368, 126.5538, 122.5058, 119.2646, 116.5902,  
113.3818, 110.8998, 107.9532, 105.2062, 102.2798, 99.4728, 96.9582, 94.3292, 92.171, 89.78099999999999,  
87.5716, 84.7048, 82.5322, 79.875, 78.3972, 75.3464, 73.7274, 71.2834, 70.1444, 68.42639999999999, 66.0166,  
64.018, 62.04379999999999, 60.33999999999999, 58.6856, 57.9836, 55.03119999999999, 54.67699999999999,  
52.3188, 51.4846, 49.44239999999999, 47.739, 46.14879999999999, 44.9202, 43.40599999999999,

42.5342000000001, 41.2834, 38.8954000000001, 38.3286000000001, 36.2146, 36.6684, 35.9946, 33.123, 33.4338, 31.7378000000001, 29.076, 28.9692, 27.4964, 27.0998, 25.9864, 26.7754, 24.3208, 23.4838, 22.7388000000001, 24.0758000000001, 21.9097999999999, 20.9728, 19.9228000000001, 19.9292, 16.617, 17.05, 18.2996000000001, 15.6128000000001, 15.7392, 14.5174, 13.6322, 12.2583999999999, 13.3766000000001, 11.423, 13.1232, 9.51639999999998, 10.5938000000001, 9.59719999999993, 8.12220000000002, 9.76739999999995, 7.50440000000003, 7.56999999999994, 6.70440000000008, 6.41419999999994, 6.71019999999999, 5.60940000000005, 4.65219999999999, 6.84099999999989, 3.40720000000001, 3.97859999999991, 3.32760000000007, 5.52160000000003, 3.31860000000006, 2.06940000000009, 4.35400000000004, 1.57500000000005, 0.280799999999999, 2.12879999999996, -0.214799999999968, -0.0378000000000611, -0.658200000000079, 0.654800000000023, -0.0697999999999865, 0.858400000000074, -2.52700000000004, -2.17519999999999, -3.35539999999992, -1.04019999999991, -0.651000000000067, -2.14439999999991, -1.96659999999997, -3.97939999999994, -0.604400000000169, -3.08260000000018, -3.39159999999993, -5.29640000000018, -5.38920000000007, -5.08759999999984, -4.69900000000007, -5.23720000000003, -3.15779999999995, -4.97879999999986, -4.89899999999989, -7.48880000000008, -5.94799999999987, -5.68060000000014, -6.67180000000008, -4.70499999999993, -7.27779999999984, -4.65799999999999, -4.43620000000001, -4.32139999999981, -5.18859999999995, -6.66879999999992, -6.48399999999992, -5.12600000000002, -4.40320000000002, -6.13500000000022, -5.80819999999994, -4.16719999999987, -4.15039999999999, -7.45600000000013, -7.24080000000004, -9.83179999999993, -5.80420000000004, -8.65619999999999, -6.99940000000015, -10.5473999999999, -7.34139999999979, -6.80999999999995, -6.29719999999998, -6.23199999999997,},

// precision 10

{737.1256, 724.4234, 711.1064, 698.4732, 685.4636, 673.0644, 660.488, 647.9654, 636.0832, 623.7864, 612.1992, 600.2176, 588.5228, 577.1716, 565.7752, 554.899, 543.6126, 532.6492, 521.9474, 511.5214, 501.1064, 490.6364, 480.2468, 470.4588, 460.3832, 451.0584, 440.8606, 431.3868, 422.5062, 413.1862, 404.463, 395.339, 386.1936, 378.1292, 369.1854, 361.2908, 353.3324, 344.8518, 337.5204, 329.4854, 321.9318, 314.552, 306.4658, 299.4256, 292.849, 286.152, 278.8956, 271.8792, 265.118, 258.62, 252.5132, 245.9322, 239.7726, 233.6086, 227.5332, 222.5918, 216.4294, 210.7662, 205.4106, 199.7338, 194.9012, 188.4486, 183.1556, 178.6338, 173.7312, 169.6264, 163.9526, 159.8742, 155.8326, 151.1966, 147.5594, 143.07, 140.037, 134.1804, 131.071, 127.4884, 124.0848, 120.2944, 117.333, 112.9626, 110.2902, 107.0814, 103.0334, 99.4832000000001, 96.3899999999999, 93.7202000000002, 90.1714000000002, 87.2357999999999, 85.9346, 82.8910000000001, 80.0264000000002, 78.3834000000002, 75.1543999999999, 73.8683999999998, 70.9895999999999, 69.4367999999999, 64.8701999999998, 65.0408000000002, 61.6738, 59.5207999999998, 57.0158000000001, 54.2302, 53.0962, 50.4985999999999, 52.2588000000001, 47.3914, 45.6244000000002, 42.8377999999998, 43.0072, 40.6516000000001, 40.2453999999998, 35.2136, 36.4546, 33.7849999999999, 33.2294000000002, 32.4679999999998, 30.8670000000002, 28.6507999999999, 28.9099999999999, 27.5983999999999, 26.1619999999998, 24.5563999999999, 23.2328000000002, 21.9484000000002, 21.5902000000001, 21.3346000000001, 17.7031999999999, 20.6111999999998, 19.5545999999999, 15.7375999999999, 17.0720000000001, 16.9517999999998, 15.326, 13.1817999999998, 14.6925999999999, 13.0859999999998, 13.2754, 10.8697999999999, 11.248, 7.3768, 4.72339999999986, 7.97899999999981, 8.7503999999999, 7.68119999999999, 9.7199999999998, 7.7391999999998, 5.6224000000002, 7.4456000000001, 6.6601999999998, 5.9058, 4.00199999999995, 4.51699999999983, 4.68240000000014, 3.86220000000003, 5.13639999999987, 5.98500000000013, 2.47719999999981, 2.61999999999989, 1.62800000000016, 4.65000000000009, 0.225599999999758, 0.831000000000131, -0.359400000000278, 1.27599999999984, -2.92559999999958, -0.0303999999996449, 2.37079999999969, -2.00339999999996, 0.804600000000391, 0.30199999999968, 1.12479999999996, -2.68800000000001, 0.0321999999996478, -1.18099999999959, -3.9402, -1.47940000000017, -0.188400000000001, -2.107200000000038, -2.04159999999956, -3.128800000000041, -4.161600000000036, -0.612799999999879, -3.48719999999958, -8.17900000000009, -5.377800000000021, -4.01379999999972, -5.58259999999973, -5.73719999999958, -7.66799999999967, -5.69520000000011, -

1.1247999999996, -5.58520000000044, -8.04560000000038, -4.64840000000004, -11.64680000000004, -  
7.97519999999986, -5.78300000000036, -7.67420000000038, -10.63280000000003, -9.817200000000041,},  
// precision 11  
{1476, 1449.6014, 1423.5802, 1397.7942, 1372.3042, 1347.2062, 1321.8402, 1297.2292, 1272.9462,  
1248.9926, 1225.3026, 1201.4252, 1178.0578, 1155.6092, 1132.626, 1110.5568, 1088.527, 1066.5154, 1045.1874,  
1024.3878, 1003.37, 982.1972, 962.5728, 942.1012, 922.9668, 903.292, 884.0772, 864.8578, 846.6562, 828.041,  
809.714, 792.3112, 775.1806, 757.9854, 740.656, 724.346, 707.5154, 691.8378, 675.7448, 659.6722, 645.5722,  
630.1462, 614.4124, 600.8728, 585.898, 572.408, 558.4926, 544.4938, 531.6776, 517.282, 505.7704, 493.1012,  
480.7388, 467.6876, 456.1872, 445.5048, 433.0214, 420.806, 411.409, 400.4144, 389.4294, 379.2286, 369.651,  
360.6156, 350.337, 342.083, 332.1538, 322.5094, 315.01, 305.6686, 298.1678, 287.8116, 280.9978, 271.9204,  
265.3286, 257.5706, 249.6014, 242.544, 235.5976, 229.583, 220.9438, 214.672, 208.2786, 201.8628, 195.1834,  
191.505, 186.1816, 178.5188, 172.2294, 167.8908, 161.0194, 158.052, 151.4588, 148.1596, 143.4344, 138.5238,  
133.13, 127.6374, 124.8162, 118.7894, 117.3984, 114.6078, 109.0858, 105.1036, 103.6258, 98.60180000000004,  
95.76180000000002, 93.58219999999998, 88.59000000000001, 86.99920000000002, 82.88000000000001,  
80.45399999999997, 74.69819999999998, 74.36440000000004, 73.29140000000001, 65.57099999999999,  
66.92320000000002, 65.19139999999997, 62.58820000000001, 61.57020000000001, 55.70359999999998,  
56.17640000000003, 52.75960000000003, 53.03020000000001, 49.06099999999997, 48.4694, 44.933,  
46.04740000000004, 44.71659999999997, 41.94160000000001, 39.92079999999999, 35.63280000000003,  
35.52760000000003, 33.19340000000001, 33.23719999999996, 33.38640000000003, 33.92280000000003,  
30.23719999999996, 29.13739999999996, 25.22720000000003, 24.29420000000003, 19.83380000000003,  
18.90059999999999, 23.09079999999999, 21.85440000000002, 19.51760000000001, 15.41479999999996,  
16.93140000000004, 18.67379999999996, 12.98779999999999, 14.36880000000002, 12.04479999999997,  
15.52199999999999, 12.52999999999997, 14.59400000000001, 14.31319999999996, 9.45499999999993,  
12.94419999999999, 3.91139999999996, 13.13739999999996, 5.447200000000052, 9.827799999999912,  
7.872799999999919, 3.677600000000089, 5.469800000000076, 5.550999999999948, 5.659799999999945,  
3.894399999999922, 3.12759999999998, 5.651400000000065, 6.306200000000009, 3.907999999999945,  
1.870600000000019, 5.170200000000048, 2.466800000000015, 0.7700000000000437, -3.723400000000077,  
1.164000000000067, 8.053400000000069, 0.1353999999999208, 2.159400000000046, 0.7669999999999825,  
1.05940000000001, 3.155000000000065, -0.2873999999999252, 2.372199999999979, -2.866200000000039, -  
1.631999999999961, -2.229799999999916, -0.155199999999924, -1.460399999999994, -0.2621999999999211, -  
2.344600000000036, -2.807800000000005, -3.221799999999935, -5.60159999999996, -8.422000000000048, -  
9.437400000000071, 0.1617999999999857, -10.47559999999998, -10.08239999999993,},  
// precision 12  
{2953, 2900.4782, 2848.3568, 2796.3666, 2745.324, 2694.9598, 2644.648, 2595.539, 2546.1474, 2498.2576,  
2450.8376, 2403.6076, 2357.451, 2311.38, 2266.4104, 2221.5638, 2176.9676, 2134.193, 2090.838, 2048.8548,  
2007.018, 1966.1742, 1925.4482, 1885.1294, 1846.4776, 1807.4044, 1768.8724, 1731.3732, 1693.4304, 1657.5326,  
1621.949, 1586.5532, 1551.7256, 1517.6182, 1483.5186, 1450.4528, 1417.865, 1385.7164, 1352.6828, 1322.6708,  
1291.8312, 1260.9036, 1231.476, 1201.8652, 1173.6718, 1145.757, 1119.2072, 1092.2828, 1065.0434, 1038.6264,  
1014.3192, 988.5746, 965.0816, 940.1176, 917.9796, 894.5576, 871.1858, 849.9144, 827.1142, 805.0818,  
783.9664, 763.9096, 742.0816, 724.3962, 706.3454, 688.018, 667.4214, 650.3106, 633.0686, 613.8094, 597.818,  
581.4248, 563.834, 547.363, 531.5066, 520.4554000000001, 505.5831999999999, 488.366, 476.4807999999999,  
459.7682, 450.0522, 434.3287999999999, 423.9527999999999, 408.7270000000001, 399.0794000000001,  
387.2522000000001, 373.9879999999999, 360.8520000000001, 351.6394, 339.642, 330.9024000000001,  
322.6615999999999, 311.6622000000001, 301.3254, 291.7484, 279.9392000000001, 276.7508, 263.2152000000001,  
254.8114000000001, 245.5494, 242.3063999999999, 234.8734, 223.7872000000001, 217.7156, 212.0196, 200.793,  
195.9748, 189.0702, 182.4491999999999, 177.2772, 170.2336, 164.741, 158.6136000000001, 155.311, 147.5964,  
142.837, 137.3724, 132.0162, 130.0424, 121.9804, 120.4518000000001, 114.8968, 111.5859999999999,  
105.9331999999999, 101.705, 98.5141999999996, 95.04880000000005, 89.78800000000005, 91.47500000000004,

83.7764000000006, 80.9698000000008, 72.8574000000008, 73.1615999999995, 67.5838000000003,  
62.6263999999992, 63.2638000000006, 66.0977999999996, 52.0843999999997, 58.9956000000002,  
47.0912000000008, 46.4956000000002, 48.4383999999991, 47.1082000000006, 43.2392, 37.2759999999998,  
40.0283999999992, 35.1864000000005, 35.8595999999998, 32.0998, 28.027, 23.6694000000007,  
33.8266000000003, 26.3736000000008, 27.2008000000005, 21.3245999999999, 26.4115999999995,  
23.4521999999997, 19.5013999999992, 19.8513999999996, 10.7492000000002, 18.6424000000006,  
13.1265999999996, 18.2436000000016, 6.71860000000015, 3.39459999999963, 6.337599999999893,  
7.767199999999841, 0.8139999999998487, 3.82819999999992, 0.826199999999517, 8.074400000000133, -  
1.590800000000176, 5.017800000000144, 0.4553999999998917, -0.241999999999837, 0.174800000000687, -  
9.076400000000174, -4.201600000000033, -3.775200000000004, -4.751799999999818, -5.37240000000002, -  
8.906800000000066, -6.10239999999976, -5.741200000000039, -9.953399999999851, -3.863399999999836, -  
13.73040000000004, -16.2710000000006, -7.513599999999841, -3.306799999999847, -13.13399999999982, -  
10.05519999999989, -6.72019999999975, -8.596600000000076, -10.93079999999983, -1.87759999999998, -  
4.82259999999951, -13.7788, -21.6470000000008, -10.67359999999983, -15.77999999999988,},

// precision 13

{5907.5052, 5802.2672, 5697.347, 5593.5794, 5491.2622, 5390.5514, 5290.3376, 5191.6952, 5093.5988,  
4997.3552, 4902.5972, 4808.3082, 4715.5646, 4624.109, 4533.8216, 4444.4344, 4356.3802, 4269.2962, 4183.3784,  
4098.292, 4014.79, 3932.4574, 3850.6036, 3771.2712, 3691.7708, 3615.099, 3538.1858, 3463.4746, 3388.8496,  
3315.6794, 3244.5448, 3173.7516, 3103.3106, 3033.6094, 2966.5642, 2900.794, 2833.7256, 2769.81, 2707.3196,  
2644.0778, 2583.9916, 2523.4662, 2464.124, 2406.073, 2347.0362, 2292.1006, 2238.1716, 2182.7514, 2128.4884,  
2077.1314, 2025.037, 1975.3756, 1928.933, 1879.311, 1831.0006, 1783.2144, 1738.3096, 1694.5144, 1649.024,  
1606.847, 1564.7528, 1525.3168, 1482.5372, 1443.9668, 1406.5074, 1365.867, 1329.2186, 1295.4186, 1257.9716,  
1225.339, 1193.2972, 1156.3578, 1125.8686, 1091.187, 1061.4094, 1029.4188, 1000.9126, 972.3272,  
944.004199999999, 915.7592, 889.965, 862.834200000001, 840.4254, 812.598399999999, 785.924200000001,  
763.050999999999, 741.793799999999, 721.466, 699.040799999999, 677.997200000002, 649.866999999998,  
634.911800000002, 609.8694, 591.981599999999, 570.2922, 557.129199999999, 538.3858, 521.872599999999,  
502.951400000002, 495.776399999999, 475.171399999999, 459.751, 439.995200000001, 426.708999999999,  
413.7016, 402.3868, 387.262599999998, 372.0524, 357.050999999999, 342.5098, 334.849200000001,  
322.529399999999, 311.613799999999, 295.848000000002, 289.273000000001, 274.093000000001,  
263.329600000001, 251.389599999999, 245.7392, 231.9614, 229.7952, 217.155200000001, 208.9588,  
199.016599999999, 190.839199999999, 180.6976, 176.272799999999, 166.976999999999, 162.5252,  
151.196400000001, 149.386999999999, 133.981199999998, 130.0586, 130.164000000001, 122.053400000001,  
110.7428, 108.1276, 106.232400000001, 100.381600000001, 98.7668000000012, 86.6440000000002,  
79.9768000000004, 82.4722000000002, 68.7026000000005, 70.1186000000016, 71.9948000000004,  
58.998599999999, 59.0492000000013, 56.9818000000014, 47.5338000000011, 42.9928, 51.1591999999982,  
37.2740000000013, 42.7220000000016, 31.3734000000004, 26.8090000000011, 25.8934000000008,  
26.5286000000015, 29.5442000000003, 19.3503999999994, 26.0760000000009, 17.9527999999991,  
14.8419999999969, 10.4683999999979, 8.6589999999965, 9.86720000000059, 4.34139999999752, -  
0.907800000000861, -3.32080000000133, -0.936199999996461, -11.9916000000012, -8.87000000000262, -  
6.33099999999831, -11.3366000000024, -15.9207999999999, -9.34659999999712, -15.5034000000014, -  
19.2097999999969, -15.3577999999998, -28.2235999999975, -30.6898000000001, -19.3271999999997, -  
25.6083999999973, -24.409599999999, -13.6385999999984, -33.4473999999973, -32.6949999999997, -  
28.9063999999998, -31.7483999999968, -32.2935999999972, -35.8329999999987, -47.6206000000002, -  
39.0855999999985, -33.1434000000008, -46.1371999999974, -37.5892000000022, -46.8164000000033, -  
47.3142000000007, -60.2914000000019, -37.7575999999972,},

// precision 14

{11816.475, 11605.0046, 11395.3792, 11188.7504, 10984.1814, 10782.0086, 10582.0072, 10384.503,  
10189.178, 9996.2738, 9806.0344, 9617.9798, 9431.394, 9248.7784, 9067.6894, 8889.6824, 8712.9134, 8538.8624,



8368.4944, 8197.7956, 8031.8916, 7866.6316, 7703.733, 7544.5726, 7386.204, 7230.666, 7077.8516, 6926.7886, 6778.6902, 6631.9632, 6487.304, 6346.7486, 6206.4408, 6070.202, 5935.2576, 5799.924, 5671.0324, 5541.9788, 5414.6112, 5290.0274, 5166.723, 5047.6906, 4929.162, 4815.1406, 4699.127, 4588.5606, 4477.7394, 4369.4014, 4264.2728, 4155.9224, 4055.581, 3955.505, 3856.9618, 3761.3828, 3666.9702, 3575.7764, 3482.4132, 3395.0186, 3305.8852, 3221.415, 3138.6024, 3056.296, 2970.4494, 2896.1526, 2816.8008, 2740.2156, 2670.497, 2594.1458, 2527.111, 2460.8168, 2387.5114, 2322.9498, 2260.6752, 2194.2686, 2133.7792, 2074.767, 2015.204, 1959.4226, 1898.6502, 1850.006, 1792.849, 1741.4838, 1687.9778, 1638.1322, 1589.3266, 1543.1394, 1496.8266, 1447.8516, 1402.7354, 1361.9606, 1327.0692, 1285.4106, 1241.8112, 1201.6726, 1161.973, 1130.261, 1094.2036, 1048.2036, 1020.6436, 990.901400000002, 961.199800000002, 924.769800000002, 899.526400000002, 872.346400000002, 834.375, 810.432000000001, 780.659800000001, 756.013800000001, 733.479399999997, 707.923999999999, 673.858, 652.222399999999, 636.572399999997, 615.738599999997, 586.696400000001, 564.147199999999, 541.679600000003, 523.943599999999, 505.714599999999, 475.729599999999, 461.779600000002, 449.750800000002, 439.020799999998, 412.7886, 400.245600000002, 383.188199999997, 362.079599999997, 357.533799999997, 334.319000000003, 327.553399999997, 308.559399999998, 291.270199999999, 279.351999999999, 271.791400000002, 252.576999999997, 247.482400000001, 236.174800000001, 218.774599999997, 220.155200000001, 208.794399999999, 201.223599999998, 182.995600000002, 185.5268, 164.547400000003, 176.5962, 150.689599999998, 157.8004, 138.378799999999, 134.021200000003, 117.614399999999, 108.194000000003, 97.0696000000025, 89.6042000000016, 95.6030000000028, 84.7810000000027, 72.635000000002, 77.3482000000004, 59.4907999999996, 55.5875999999989, 50.7346000000034, 61.3916000000027, 50.9149999999936, 39.0384000000049, 58.9395999999979, 29.633600000001, 28.2032000000036, 26.0078000000067, 17.0387999999948, 9.22000000000116, 13.8387999999977, 8.07240000000456, 14.1549999999988, 15.3570000000036, 3.42660000000615, 6.24820000000182, -2.96940000000177, -8.79940000000352, -5.97860000000219, -14.4048000000039, -3.4143999999942, -13.0148000000045, -11.6977999999945, -25.7878000000055, -22.3185999999987, -24.4095999999999, -31.9756000000052, -18.9722000000038, -22.8678000000073, -30.8972000000067, -32.3715999999986, -22.3907999999938, -43.6720000000059, -35.9038, -39.7492000000057, -54.1641999999993, -45.2749999999942, -42.2989999999991, -44.1089999999967, -64.3564000000042, -49.9551999999967, -42.6116000000038,},

// precision 15

{23634.0036, 23210.8034, 22792.4744, 22379.1524, 21969.7928, 21565.326, 21165.3532, 20770.2806, 20379.9892, 19994.7098, 19613.318, 19236.799, 18865.4382, 18498.8244, 18136.5138, 17778.8668, 17426.2344, 17079.32, 16734.778, 16397.2418, 16063.3324, 15734.0232, 15409.731, 15088.728, 14772.9896, 14464.1402, 14157.5588, 13855.5958, 13559.3296, 13264.9096, 12978.326, 12692.0826, 12413.8816, 12137.3192, 11870.2326, 11602.5554, 11340.3142, 11079.613, 10829.5908, 10583.5466, 10334.0344, 10095.5072, 9859.694, 9625.2822, 9395.7862, 9174.0586, 8957.3164, 8738.064, 8524.155, 8313.7396, 8116.9168, 7913.542, 7718.4778, 7521.65, 7335.5596, 7154.2906, 6968.7396, 6786.3996, 6613.236, 6437.406, 6270.6598, 6107.7958, 5945.7174, 5787.6784, 5635.5784, 5482.308, 5337.9784, 5190.0864, 5045.9158, 4919.1386, 4771.817, 4645.7742, 4518.4774, 4385.5454, 4262.6622, 4142.74679999999, 4015.5318, 3897.9276, 3790.7764, 3685.13800000001, 3573.6274, 3467.9706, 3368.61079999999, 3271.5202, 3170.3848, 3076.4656, 2982.38400000001, 2888.4664, 2806.4868, 2711.9564, 2634.1434, 2551.3204, 2469.7662, 2396.61139999999, 2318.9902, 2243.8658, 2171.9246, 2105.01360000001, 2028.8536, 1960.9952, 1901.4096, 1841.86079999999, 1777.54700000001, 1714.5802, 1654.65059999999, 1596.311, 1546.2016, 1492.3296, 1433.8974, 1383.84600000001, 1339.4152, 1293.5518, 1245.8686, 1193.50659999999, 1162.27959999999, 1107.19439999999, 1069.18060000001, 1035.09179999999, 999.679000000004, 957.679999999993, 925.300199999998, 888.099400000006, 848.638600000006, 818.156400000007, 796.748399999997, 752.139200000005, 725.271200000003, 692.216, 671.633600000001, 647.939799999993, 621.670599999998, 575.398799999995, 561.226599999995, 532.237999999998, 521.787599999996, 483.095799999996, 467.049599999998, 465.286399999997, 415.548599999995, 401.047399999996, 380.607999999993, 377.362599999993, 347.258799999996, 338.371599999999,

310.096999999994, 301.409199999995, 276.280799999993, 265.586800000005, 258.994399999996,  
223.915999999997, 215.925399999993, 213.503800000006, 191.045400000003, 166.718200000003,  
166.259000000005, 162.941200000001, 148.829400000002, 141.645999999993, 123.535399999993,  
122.329800000007, 89.4733999999988, 80.1962000000058, 77.5457999999926, 59.1056000000099,  
83.3509999999951, 52.2906000000075, 36.39799999999865, 40.6558000000077, 42.0003999999989,  
19.6630000000005, 19.71539999999864, -8.38539999999921, -0.692799999998902, 0.854800000000978,  
3.23219999999856, -3.89040000000386, -5.25880000001052, -24.9052000000083, -22.6837999999989, -  
26.4286000000138, -34.997000000003, -37.0216000000073, -43.430400000012, -58.2390000000014, -  
68.8034000000043, -56.9245999999985, -57.8583999999973, -77.30979999999882, -73.2793999999994, -  
81.0738000000129, -87.4530000000086, -65.0254000000132, -57.2963999999992, -96.2746000000043, -103.25, -  
96.081600000005, -91.5542000000132, -102.465200000006, -107.688599999994, -101.458000000013, -  
109.715800000005,},

// precision 16

{47270, 46423.3584, 45585.7074, 44757.152, 43938.8416, 43130.9514, 42330.03, 41540.407, 40759.6348,  
39988.206, 39226.5144, 38473.2096, 37729.795, 36997.268, 36272.6448, 35558.665, 34853.0248, 34157.4472,  
33470.5204, 32793.5742, 32127.0194, 31469.4182, 30817.6136, 30178.6968, 29546.8908, 28922.8544, 28312.271,  
27707.0924, 27114.0326, 26526.692, 25948.6336, 25383.7826, 24823.5998, 24272.2974, 23732.2572, 23201.4976,  
22674.2796, 22163.6336, 21656.515, 21161.7362, 20669.9368, 20189.4424, 19717.3358, 19256.3744, 18795.9638,  
18352.197, 17908.5738, 17474.391, 17052.918, 16637.2236, 16228.4602, 15823.3474, 15428.6974, 15043.0284,  
14667.6278, 14297.4588, 13935.2882, 13578.5402, 13234.6032, 12882.1578, 12548.0728, 12219.231, 11898.0072,  
11587.2626, 11279.9072, 10973.5048, 10678.5186, 10392.4876, 10105.2556, 9825.766, 9562.5444, 9294.2222,  
9038.2352, 8784.848, 8533.2644, 8301.7776, 8058.30859999999, 7822.94579999999, 7599.11319999999,  
7366.90779999999, 7161.217, 6957.53080000001, 6736.212, 6548.21220000001, 6343.06839999999,  
6156.28719999999, 5975.15419999999, 5791.75719999999, 5621.32019999999, 5451.66, 5287.61040000001,  
5118.09479999999, 4957.288, 4798.4246, 4662.17559999999, 4512.05900000001, 4364.68539999999,  
4220.77720000001, 4082.67259999999, 3957.19519999999, 3842.15779999999, 3699.3328, 3583.01180000001,  
3473.8964, 3338.66639999999, 3233.55559999999, 3117.799, 3008.111, 2909.69140000001, 2814.86499999999,  
2719.46119999999, 2624.742, 2532.46979999999, 2444.7886, 2370.1868, 2272.45259999999, 2196.19260000001,  
2117.90419999999, 2023.2972, 1969.76819999999, 1885.58979999999, 1833.2824, 1733.91200000001,  
1682.54920000001, 1604.57980000001, 1556.11240000001, 1491.3064, 1421.71960000001, 1371.22899999999,  
1322.1324, 1264.7892, 1196.23920000001, 1143.8474, 1088.67240000001, 1073.60380000001,  
1023.11660000001, 959.036400000012, 927.433199999999, 906.792799999996, 853.433599999989,  
841.873800000001, 791.1054, 756.899999999994, 704.343200000003, 672.495599999995, 622.790399999998,  
611.254799999995, 567.283200000005, 519.406599999998, 519.188400000014, 495.312800000014,  
451.3507999999986, 443.9733999999988, 431.882199999993, 392.027000000002, 380.924200000009,  
345.1289999999986, 298.901400000002, 287.771999999997, 272.625, 247.253000000026, 222.490600000019,  
223.590000000026, 196.407599999977, 176.425999999978, 134.725199999986, 132.4804, 110.445599999977,  
86.7939999999944, 56.7038000000175, 64.915399999998, 38.3726000000024, 37.1606000000029,  
46.170999999973, 49.171600000015, 15.3362000000197, 6.71639999997569, -34.8185999999987, -  
39.4476000000141, 12.6830000000191, -12.3331999999937, -50.6565999999875, -59.9538000000175, -  
65.1054000000004, -70.7576000000117, -106.325200000021, -126.852200000023, -110.227599999984, -  
132.885999999999, -113.897200000007, -142.713800000027, -151.145399999979, -150.799200000009, -  
177.756200000003, -156.036399999983, -182.735199999996, -177.259399999981, -198.663600000029, -  
174.577600000019, -193.84580000001,},

// precision 17

{94541, 92848.811, 91174.019, 89517.558, 87879.9705, 86262.7565, 84663.5125, 83083.7435, 81521.7865,  
79977.272, 78455.9465, 76950.219, 75465.432, 73994.152, 72546.71, 71115.2345, 69705.6765, 68314.937,  
66944.2705, 65591.255, 64252.9485, 62938.016, 61636.8225, 60355.592, 59092.789, 57850.568, 56624.518,

55417.343, 54231.1415, 53067.387, 51903.526, 50774.649, 49657.6415, 48561.05, 47475.7575, 46410.159, 45364.852, 44327.053, 43318.4005, 42325.6165, 41348.4595, 40383.6265, 39436.77, 38509.502, 37594.035, 36695.939, 35818.6895, 34955.691, 34115.8095, 33293.949, 32465.0775, 31657.6715, 30877.2585, 30093.78, 29351.3695, 28594.1365, 27872.115, 27168.7465, 26477.076, 25774.541, 25106.5375, 24452.5135, 23815.5125, 23174.0655, 22555.2685, 21960.2065, 21376.3555, 20785.1925, 20211.517, 19657.0725, 19141.6865, 18579.737, 18081.3955, 17578.995, 17073.44, 16608.335, 16119.911, 15651.266, 15194.583, 14749.0495, 14343.4835, 13925.639, 13504.509, 13099.3885, 12691.2855, 12328.018, 11969.0345, 11596.5145, 11245.6355, 10917.6575, 10580.9785, 10277.8605, 9926.58100000001, 9605.538, 9300.42950000003, 8989.97850000003, 8728.73249999998, 8448.3235, 8175.31050000002, 7898.98700000002, 7629.79100000003, 7413.76199999999, 7149.92300000001, 6921.12650000001, 6677.1545, 6443.28000000003, 6278.23450000002, 6014.20049999998, 5791.20299999998, 5605.78450000001, 5438.48800000001, 5234.2255, 5059.6825, 4887.43349999998, 4682.935, 4496.31099999999, 4322.52250000002, 4191.42499999999, 4021.24200000003, 3900.64799999999, 3762.84250000003, 3609.98050000001, 3502.29599999997, 3363.84250000003, 3206.54849999998, 3079.70000000001, 2971.42300000001, 2867.80349999998, 2727.08100000001, 2630.74900000001, 2496.6165, 2440.902, 2356.19150000002, 2235.58199999999, 2120.54149999999, 2012.25449999998, 1933.35600000003, 1820.93099999998, 1761.54800000001, 1663.09350000002, 1578.84600000002, 1509.48149999999, 1427.3345, 1379.56150000001, 1306.68099999998, 1212.63449999999, 1084.17300000001, 1124.16450000001, 1060.69949999999, 1007.48849999998, 941.194499999983, 879.880500000028, 836.007500000007, 782.802000000025, 748.385499999975, 647.991500000004, 626.730500000005, 570.776000000013, 484.000500000024, 513.98550000001, 418.985499999952, 386.996999999974, 370.026500000036, 355.496999999974, 356.731499999994, 255.92200000002, 259.094000000041, 205.434499999974, 165.374500000034, 197.347500000033, 95.718499999959, 67.616500000037, 54.6970000000438, 31.7395000000251, -15.8784999999916, 8.42500000004657, -26.3754999999655, -118.425500000012, -66.6629999999423, -42.9745000000112, -107.364999999991, -189.839000000036, -162.611499999999, -164.964999999967, -189.079999999958, -223.931499999948, -235.329999999958, -269.639500000048, -249.087999999989, -206.475499999942, -283.04449999996, -290.667000000016, -304.561499999953, -336.784499999951, -380.386500000022, -283.280499999993, -364.533000000054, -389.059499999974, -364.454000000027, -415.748000000021, -417.155000000028,},

// precision 18

{189083, 185696.913, 182348.774, 179035.946, 175762.762, 172526.444, 169329.754, 166166.099, 163043.269, 159958.91, 156907.912, 153906.845, 150924.199, 147996.568, 145093.457, 142239.233, 139421.475, 136632.27, 133889.588, 131174.2, 128511.619, 125868.621, 123265.385, 120721.061, 118181.769, 115709.456, 113252.446, 110840.198, 108465.099, 106126.164, 103823.469, 101556.618, 99308.004, 97124.508, 94937.803, 92833.731, 90745.061, 88677.627, 86617.47, 84650.442, 82697.833, 80769.132, 78879.629, 77014.432, 75215.626, 73384.587, 71652.482, 69895.93, 68209.301, 66553.669, 64921.981, 63310.323, 61742.115, 60205.018, 58698.658, 57190.657, 55760.865, 54331.169, 52908.167, 51550.273, 50225.254, 48922.421, 47614.533, 46362.049, 45098.569, 43926.083, 42736.03, 41593.473, 40425.26, 39316.237, 38243.651, 37170.617, 36114.609, 35084.19, 34117.233, 33206.509, 32231.505, 31318.728, 30403.404, 29540.0550000001, 28679.236, 27825.862, 26965.216, 26179.148, 25462.08, 24645.952, 23922.523, 23198.144, 22529.128, 21762.4179999999, 21134.779, 20459.117, 19840.818, 19187.04, 18636.3689999999, 17982.831, 17439.7389999999, 16874.547, 16358.2169999999, 15835.684, 15352.914, 14823.681, 14329.313, 13816.897, 13342.874, 12880.882, 12491.648, 12021.254, 11625.392, 11293.7610000001, 10813.697, 10456.209, 10099.074, 9755.39000000001, 9393.18500000006, 9047.57900000003, 8657.98499999999, 8395.85900000005, 8033, 7736.95900000003, 7430.59699999995, 7258.47699999996, 6924.58200000005, 6691.29399999999, 6357.92500000005, 6202.05700000003, 5921.19700000004, 5628.28399999999, 5404.96799999999, 5226.71100000001, 4990.75600000005, 4799.77399999998, 4622.93099999998, 4472.478, 4171.78700000001, 3957.46299999999, 3868.95200000005, 3691.14300000004, 3474.63100000005, 3341.67200000002, 3109.14000000001, 3071.97400000005, 2796.40399999998, 2756.17799999996, 2611.46999999997, 2471.93000000005, 2382.26399999997,

```

2209.22400000005, 2142.28399999999, 2013.96100000001, 1911.18999999994, 1818.27099999995,
1668.47900000005, 1519.65800000005, 1469.67599999998, 1367.13800000004, 1248.52899999998,
1181.23600000003, 1022.71900000004, 1088.20700000005, 959.03600000008, 876.095999999903,
791.183999999892, 703.337000000058, 731.949999999953, 586.86400000006, 526.024999999907,
323.004999999888, 320.448000000091, 340.672999999952, 309.638999999966, 216.601999999955,
102.922999999952, 19.239999999907, -0.114000000059605, -32.6240000000689, -89.3179999999702, -
153.497999999905, -64.2970000000205, -143.695999999996, -259.497999999905, -253.017999999924, -
213.948000000091, -397.590000000084, -434.006000000052, -403.475000000093, -297.958000000101, -
404.317000000039, -528.898999999976, -506.621000000043, -513.205000000075, -479.351000000024, -
596.139999999898, -527.016999999993, -664.681000000099, -680.306000000099, -704.050000000047, -
850.486000000034, -757.43200000003, -713.308999999892,}

```

```
};
```

```

private Format format;
private RegisterSet registerSet;
private final int m;
private final int p;

```

```

//Sparse versions of m and p
private int sm;
private int sp;

```

```
private final double alphaMM;
```

```

//How big the sparse set is allowed to get before we convert to 'normal'
private int sparseSetThreshold;
//How big the temp list is allowed to get before we batch merge it into the sparse set
private int sortThreshold;

```

```

private int[] tmpSet;
private int tmpIndex = 0;
private int[] sparseSet;

```

```
/**
```

```

* This constructor disables the sparse set. If the counter is likely to exceed
* the sparse set thresholds than using this constructor will help avoid the
* extra memory pressure created by maintaining the sparse set until that threshold is
* breached.

```

```
*
```

```
* @param p - the precision value for the normal set
```

```
*/
```

```

public HyperLogLogPlus(int p) {
    this(p, 0);
}

```

```
/**
```

```
* Basic constructor for creating a instance that supports sparse and normal
```

```
* representations. The values of <code>p</code> and
```

```

* <code>sp</code> define the precision of the Normal and Sparse set
* representations for the data structure. <code>p</code> must be a value
* between 4 and <code>sp</code> and <code>sp</code> must be less than 32.
*
* @param p - the precision value for the normal set
* @param sp - the precision value for the sparse set
*/
public HyperLogLogPlus(int p, int sp) {
    this(p, sp, null, null);
}

/**
* Constructor to support instances serialized with the legacy sparse
* encoding scheme.
*
* @param p      - the precision value for the normal set
* @param sp     - the precision value for the sparse set
* @param deltaByteSet - a list of varint byte arrays encoded using a delta encoding scheme
*/
public HyperLogLogPlus(int p, int sp, List<byte[]> deltaByteSet) {
    this(p, sp);
    sparseSet = new int[deltaByteSet.size()];
    int previousValue = 0;
    for (int i = 0; i < deltaByteSet.size(); i++) {
        int nextValue = Varint.readUnsignedVarInt(deltaByteSet.get(i));
        sparseSet[i] = nextValue + previousValue;
        previousValue = sparseSet[i];
    }
}

// for constructing a sparse mode hllp
private HyperLogLogPlus(int p, int sp, int[] sparseSet) {
    this(p, sp, sparseSet, null);
}

// for constructing a normal mode hllp
private HyperLogLogPlus(int p, int sp, RegisterSet registerSet) {
    this(p, sp, null, registerSet);
}

private HyperLogLogPlus(int p, int sp, int[] sparseSet, RegisterSet registerSet) {
    if (p < 4 || (p > sp && sp != 0)) {
        throw new IllegalArgumentException("p must be between 4 and sp (inclusive)");
    }
    if (sp > 32) {
        throw new IllegalArgumentException("sp values greater than 32 not supported");
    }
}

```

```

this.p = p;
m = (int) Math.pow(2, p);
format = Format.NORMAL;
this.registerSet = registerSet;
if (registerSet == null) {
    if (sp > 0) // Use sparse representation
    {
        format = Format.SPARSE;
        this.sp = sp;
        sm = (int) Math.pow(2, sp);
        this.sparseSet = sparseSet;
        sparseSetThreshold = (int) (m * 0.75);
        sortThreshold = sparseSetThreshold / 4;
    } else {
        this.registerSet = new RegisterSet((int) Math.pow(2, p));
    }
}

this.alphaMM = HyperLogLog.getAlphaMM(p, m);
}

@Override
public boolean offerHashed(long hashedLong) {
    switch (format) {
        case NORMAL:
            // find first p bits of x
            final long idx = hashedLong >>> (64 - p);
            //Ignore the first p bits (the idx), and then find the number of leading zeros
            //Push a 1 to where the bit string would have ended if we didnt just push the idx out of the way
            //A one is always added to runLength for estimation calculation purposes
            final int runLength = Long.numberOfLeadingZeros((hashedLong << this.p) | (1 << (this.p - 1))) + 1;
            return registerSet.updateIfGreater((int) idx, runLength);
        case SPARSE:
            //Call the sparse encoding scheme which attempts to stuff as much helpful data into 32 bits as possible
            int k = encodeHash(hashedLong, p, sp);
            if (tmpSet == null) {
                tmpSet = new int[sortThreshold + 1];
            }
            //Put the encoded data into the temp set
            tmpSet[tmpIndex++] = k;
            if (sparseSet != null && sparseSet.length > sparseSetThreshold) {
                mergeTempList();
                convertToNormal();
            } else if (tmpIndex > sortThreshold) {
                mergeTempList();
            }
            return true;
    }
}

```

```

    return false;
}

@Override
public boolean offerHashed(int hashedInt) {
    throw new UnsupportedOperationException();
}

/**
 * Add data to estimator based on the mode it is in
 *
 * @param o stream element
 * @return Will almost always return true for sparse mode because the additions are batched in
 */
@Override
public boolean offer(Object o) {
    long x = MurmurHash.hash64(o);
    return offerHashed(x);
}

/**
 * Converts the mode of this estimator from 'sparse' to 'normal'.
 *
 * Each member of the set has its longer 'sparse precision (sp)' length idx
 * truncated to length p and the associated run length is placed into a register.
 * Collisions are resolved by merely taking the max.
 */

private void convertToNormal() {
    mergeTempList();
    this.registerSet = new RegisterSet((int) Math.pow(2, p));
    for (int k : sparseSet) {
        int idx = getIndex(k, p);
        int r = decodeRunLength(k);
        registerSet.updateIfGreater(idx, r);
    }
    format = Format.NORMAL;
    tmpSet = null;
    sparseSet = null;
}

/**
 * Encode the sp length idx and, if necessary, the run length.
 *
 * Start with the 64 bit hash as x.
 *
 * Find all the bits that belong in the first sp (roughly 25) bits. (This is idx')
 * Get rid of the first p (roughly 18) bits of those. (Those were idx (not prime))

```

```

* <p/>
* If all the remaining bits are zero then we are going to need to find and encode the
* full run length of leading zeros, but this only happens once in  $2^{(sp - p)}$  or roughly
*  $2^7$  times.
* <p/>
* If at least one of them is not zero, then since the run length is determined by bits
* after p and the idx' contains the first (sp - p) bits of those, then just by putting idx'
* in the encoding, we will also be giving it all the information it needs to find the run length.
* <p/>
* The relationship looks like this:
* <p/>
* ***** <- hashed length of bits
* | p bits = idx || look for leading zeros here |
* | sp bits = idx' |
* | all 0s? |
* <p/>
* If we have idx', we could theoretically scan it (as per zeroTest) when unencoding and therefore know whether
* to look for the extra run length information. However, for now we have followed the authors of
* the paper and put this information in a flag bit at the end of the encoding.
* <p/>
* Based on this flag, we know whether to adjust for the missing run length bits. We could also
* use this flag to compress all the zeros in "| all 0s? |", but saving a byte or so once in 128
* times is less than the 120 bits spent on the flag elsewhere. Of course, after compression, the losses
* are not quite so large either way.
* <p/>
* The encoding scheme now looks like:
* <p/>
* ***** <- smaller length of bits (half, but not to scale)
* | empty || sp bits ||F|
* | p bits || has 1 ||0|
* <p/>
* <p/>
* or if the run length was needed (ie 'all 0s?' was indeed all 0s):
* <p/>
* *****
* | sp bits || run len ||F|
* | p bits || 0s | |1|
* <p/>
* <p/>
* The other notable encoding feature is the inversion of the run length, which just lets the lists
* be sorted in a convenient way. (Could alternatively sort in reverse, and use descending deltas).
*
* @param x the hash bits
* @param p the 'normal' mode precision
* @param sp the 'sparse' mode precision
* @return the encoded data as an integer
*/
private int encodeHash(long x, int p, int sp) {

```



```

//Get the idx' (the first sp bits) by pushing the rest to the right (into oblivion >:D)
int idx = (int) (x >>> (64 - sp));
//Push to the left for all the spaces you know are between the start of your bits and the left 'wall'
//then push p bits off as well so we have just our friend "all 0s?"
int zeroTest = 0;
if (p < sp) {
    zeroTest = idx << ((32 - sp) + p);
}
if (zeroTest == 0) {
    //See offer
    final int runLength = Long.numberOfLeadingZeros((x << this.p) | (1 << (this.p - 1))) + 1;
    //Invert run length by xoring it with a bunch of 1s
    int invrl = runLength ^ 63;
    return (((idx
        << 6)    //push the idx left 6 times to make room to put in the run length
        | invrl) //then merge in the run length
        << 1)    //move left again to make room for the flag bit
        | 1;    //merge in the flag bit (set to one because we needed the run length)
    } else {
        //Just push left once. A zero will appear by default and that's the flag we want.
        return idx << 1;
    }
}

/**
 * More of less the opposite of the encoding function but just for getting out run lengths.
 *
 * @param k encoded int
 * @return run length
 */
private int decodeRunLength(int k) {
    if ((k & 1) == 1) //checking the flag bit
    {
        //Smooch the flag bit; it has served its purpose
        //Then & with 63 to delete everything but the run length
        //Then invert again to undo the inversion from before
        return ((k >>> 1) & 63) ^ 63;
    } else {
        //In one of the encode diagrams there is a substring of bits
        //labeled 'has 1'. This is where we find that one!

        //First push left to clear out the empty space (that is 31-sp places)
        //Then push left some more cause bits in precision p don't count for run length
        //That is, push left p times.
        //Lastly we add one because we love adding one to run lengths. Its our JAM
        return Integer.numberOfLeadingZeros(k << p + (31 - sp)) + 1;
    }
}

```

```

/**
 * returns the hash portion of the of the integer value
 *
 * @param k - the encoded integer to extract the hash from
 * @return the encoded hash value
 */
private int getEncodedHash(int k) {
    return (k << p + (31 - sp));
}

/**
 * Get the idx' from an encoding
 *
 * @param k encoded data
 * @return idx'
 */
private static int getSparseIndex(int k) {
    if ((k & 1) == 1) {
        return k >>> 7;
    } else {
        return k >>> 1;
    }
}

/**
 * Gets the idx from an encoding (note this is idx and not idx prime)
 *
 * @param k encoded data
 * @param p 'normal' precision
 * @return
 */
private int getIndex(int k, int p) {
    k = getSparseIndex(k);
    return (k >>> (sp - p));
}

/**
 * Gather the cardinality estimate from this estimator.
 * <p/>
 * Has two procedures based on current mode. 'Normal' mode works similar to HLL but has some
 * new bias corrections. 'Sparse' mode is linear counting.
 *
 * @return
 */
@Override
public long cardinality() {
    switch (format) {

```

```

case NORMAL:
    double registerSum = 0;
    int count = registerSet.count;
    double zeros = 0;
    for (int j = 0; j < registerSet.count; j++) {
        int val = registerSet.get(j);
        registerSum += 1.0 / (1 << val);
        if (val == 0) {
            zeros++;
        }
    }

    double estimate = alphaMM * (1 / registerSum);
    double estimatePrime = estimate;
    if (estimate <= (5 * m)) {
        estimatePrime = estimate - getEstimateBias(estimate, p);
    }
    double H;
    if (zeros > 0) {
        H = HyperLogLog.linearCounting(count, zeros);
    } else {
        H = estimatePrime;
    }
    // when p is large the threshold is just 5*m
    if ((p <= 18 && H < thresholdData[p - 4]) || (p > 18 && estimate <= 5 * m)) {
        return Math.round(H);
    } else {
        return Math.round(estimatePrime);
    }
case SPARSE:
    mergeTempList();
    return Math.round(HyperLogLog.linearCounting(sm, (sm - sparseSet.length)));
}
return 0;
}

private static double getEstimateBias(double estimate, int p) {
    // get nearest neighbors for this estimate and precision
    // above p = 18 there is no bias correction
    if (p > 18) {
        return 0;
    }
    double[] estimateVector = rawEstimateData[p - 4];
    SortedMap<Double, Integer> estimateDistances = calcDistances(estimate, estimateVector);
    int[] nearestNeighbors = getNearestNeighbors(estimateDistances);
    return getBias(nearestNeighbors, p);
}

```

```

private static double getBias(int[] nearestNeighbors, int p) {
    double[] biasVector = biasData[p - 4];
    double biasTotal = 0.0d;
    for (int nearestNeighbor : nearestNeighbors) {
        biasTotal += biasVector[nearestNeighbor];
    }
    return biasTotal / (nearestNeighbors.length);
}

private static int[] getNearestNeighbors(SortedMap<Double, Integer> distanceMap) {
    int[] nearest = new int[6];
    int i = 0;
    for (Integer index : distanceMap.values()) {
        nearest[i++] = index;
        if (i >= 6) {
            break;
        }
    }
    return nearest;
}

private static SortedMap<Double, Integer> calcDistances(double estimate, double[] estimateVector) {
    SortedMap<Double, Integer> distances = new TreeMap<Double, Integer>();
    int index = 0;
    for (double anEstimateVector : estimateVector) {
        distances.put(Math.pow(estimate - anEstimateVector, 2), index++);
    }
    return distances;
}

/**
 * Batch merges the sparse set with the temporary list. Usually called when the temporary
 * list fills up, but may also be needed when suddenly converting to normal or producing a
 * cardinality estimate.
 * <p/>
 * It works very similarly to the merge part of merge sort with some key differences:
 * We don't care about the kind of order the idxs appear in, only that they are in SOME order.
 * This is because we only need to be sure that we detect when they are the same. So if idx: '001' appears
 * first and idx: '002' appears last, that is fine as long as that behavior is the same for both lists.
 * <p/>
 * We do not allow duplicate entries (we are making a set after all), and collisions are resolved by run
 * length. However, most of the time the run length will be the same if two idx' are the same. Only in the
 * 1 in ~128 chance case of 'all 0s?' will they differ. Because the rest of the encoding is the same we can
 * do comparisons without extracting the run length and because of our earlier inversion trick, the highest
 * run length duplicates will appear first. So we take those and ignore any that follow with the same idx'.
 *
 * @param set sparse set
 * @param tmp list to be merged

```

```

* @return the new sparse set
*/
private static int[] merge(int[] set, int[] tmp) {
    List<Integer> newSet = new ArrayList<Integer>();
    // iterate over each set and merge the result values

    int setLength = (set == null ? 0 : set.length);
    int seti = 0;
    int tmpi = 0;
    while (seti < setLength || tmpi < tmp.length) {
        if (seti >= setLength) {
            int tmpVal = tmp[tmpi];
            newSet.add(tmpVal);
            tmpi++;
            tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
        } else if (tmpi >= tmp.length) {
            newSet.add(set[seti++]);
        } else {
            int setVal = set[seti];
            int tmpVal = tmp[tmpi];

            if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
                newSet.add(Math.min(setVal, tmpVal));
                tmpi++;
                tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
                seti++;
            } else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
                newSet.add(setVal);
                seti++;
            } else {
                newSet.add(tmpVal);
                tmpi++;
                tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
            }
        }
    }
    return toIntArray(newSet);
}

private static int[] toIntArray(List<Integer> list) {
    int[] ret = new int[list.size()];
    for (int i = 0; i < ret.length; i++) {
        ret[i] = list.get(i);
    }
    return ret;
}

/**

```

```

* Eats up the inferior duplicates from the temp list
*
* @param tmp tmp list
* @param tmpIdx the idx' we want to consume
* @param tmpi the current tmp list index
* @return the new tmp list index
*/
private static int consumeDuplicates(int[] tmp, int tmpIdx, int tmpi) {
    while (tmpi < tmp.length) {
        int nextTmp = tmp[tmpi];
        int nextTmpIdx = getSparseIndex(nextTmp);
        if (tmpIdx != nextTmpIdx) {
            return tmpi;
        }
        tmpi++;
    }
    return tmpi;
}

/**
* Merge this HLL++ instance with another! The power of friends!
* <p/>
* This works very similarly to the merge with temp list function.
* <p/>
* However, in this case, both lists will need their own delta decoding and neither will
* have to worry about consuming duplicates.
*
* @param other
* @return the new sparse set
*/
private int[] mergeEstimators(HyperLogLogPlus other) {
    other.mergeTempList();
    int[] tmp = other.getSparseSet();
    mergeTempList();
    int[] set = sparseSet;

    List<Integer> newSet = new ArrayList<Integer>();

    // iterate over each set and merge the result values

    int seti = 0;
    int tmpi = 0;
    while (seti < set.length || tmpi < tmp.length) {
        if (seti >= set.length) {
            newSet.add(tmp[tmpi++]);
        } else if (tmpi >= tmp.length) {
            newSet.add(set[seti++]);
        } else {

```

```

int setVal = set[seti];
int tmpVal = tmp[tmpi];

if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
    newSet.add(Math.min(setVal, tmpVal));
    tmpi++;
    seti++;
} else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
    newSet.add(setVal);
    seti++;
} else {
    newSet.add(tmpVal);
    tmpi++;
}
}
}
return toIntArray(newSet);
}

```

```

@Override
public int sizeof() {
    if (registerSet == null) {
        return 4 * RegisterSet.getSizeForCount((int) Math.pow(2, p));
    }
    return registerSet.size * 4;
}

```

```

@Override
public byte[] getBytes() throws IOException {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    DataOutputStream dos = new DataOutputStream(baos);
    // write version flag (always negative)
    dos.writeInt(-VERSION);
    Varint.writeUnsignedVarInt(p, dos);
    Varint.writeUnsignedVarInt(sp, dos);
    switch (format) {
        case NORMAL:
            Varint.writeUnsignedVarInt(0, dos);
            Varint.writeUnsignedVarInt(registerSet.size * 4, dos);
            for (int x : registerSet.readOnlyBits()) {
                dos.writeInt(x);
            }
            break;
        case SPARSE:
            Varint.writeUnsignedVarInt(1, dos);
            mergeTempList();
            Varint.writeUnsignedVarInt(sparseSet.length, dos);
            int prevMergedDelta = 0;

```

```

        for (int k : sparseSet) {
            Varint.writeUnsignedVarInt(k - prevMergedDelta, dos);
            prevMergedDelta = k;
        }
        break;
    }

    return baos.toByteArray();
}

private void writeBytes(DataOutput serializedByteStream) throws IOException {
    serializedByteStream.write(getBytes());
}

/**
 * Script-esque function that handles preparing to and executing merging the sparse set
 * and the temp list.
 * <p/>
 * Set up the delta encoding, sort the temp list, merge the lists, blow up the temp list.
 * <p/>
 * Exposed for testing purposes
 */
protected void mergeTempList() {
    int[] retSet = sparseSet;
    if (tmpIndex > 0) {
        int[] sortedSet = sortEncodedSet(tmpSet, tmpIndex);
        retSet = merge(sparseSet, sortedSet);
        tmpIndex = 0;
    }
    sparseSet = retSet == null ? new int[0] : retSet;
}

// exposed for testing
int[] sortEncodedSet(int[] encodedSet, int validIndex) {
    List<Integer> sortedList = new ArrayList<Integer>(validIndex);
    for (int i = 0; i < validIndex; i++) {
        int k = encodedSet[i];
        sortedList.add(k);
    }

    Collections.sort(sortedList, new Comparator<Integer>() {
        @Override
        public int compare(Integer left, Integer right) {
            if (left.equals(right)) {
                return 0;
            }
            int leftIndex = getSparseIndex(left);
            int rightIndex = getSparseIndex(right);

```



```

        if (leftIndex < rightIndex) {
            return -1;
        } else if (rightIndex < leftIndex) {
            return 1;
        }
        int leftHash = getEncodedHash(left);
        int rightHash = getEncodedHash(right);
        if (leftHash < rightHash) {
            return -1;
        } else if (rightHash < leftHash) {
            return 1;
        }
        return 0;
    }
});
return toIntArray(sortedList);
}

/**
 * Add all the elements of the other set to this set.
 * <p/>
 * If possible, the sparse mode is protected. A switch to the normal mode
 * is triggered only if the resulting set exceed the threshold.
 * <p/>
 * This operation does not imply a loss of precision.
 *
 * @param other A compatible Hyperloglog++ instance (same p and sp)
 * @throws CardinalityMergeException if other is not compatible
 */
public void addAll(HyperLogLogPlus other) throws HyperLogLogPlusMergeException {
    if (other.sizeof() != sizeof()) {
        throw new HyperLogLogPlusMergeException("Cannot merge estimators of different sizes");
    }

    if (format == Format.NORMAL && other.format == Format.NORMAL) {
        registerSet.merge(other.registerSet);
        return;
    }

    if (format == Format.SPARSE && other.format == Format.SPARSE) {
        sparseSet = mergeEstimators(other);
        // Convert to normal mode if needed.
        // Since offer trigger the switch to the normal mode on only when
        // the tmpSet is full and the threshold is reached, we follow the same
        // behavior here to ease testing
        if (sparseSet.length > sparseSetThreshold + sortThreshold) {
            convertToNormal();
        }
    }
}

```

```

        return;
    }

    if (format == Format.SPARSE && other.format == Format.NORMAL) {
        convertToNormal();
        registerSet.merge(other.registerSet);
        return;
    }

    if (format == Format.NORMAL && other.format == Format.SPARSE) {
        // Iterating over other's sparse set and updating only required indexes
        // of this' register set is several orders of magnitude faster than copying
        // and converting other to normal mode. This use case is quite common since
        // we tend to aggregate small sets to large sets.
        other.mergeTempList();
        for (int i = 0; i < other.sparseSet.length; i++) {
            int k = other.sparseSet[i];
            int idx = other.getIndex(k, p);
            int r = other.decodeRunLength(k);
            registerSet.updateIfGreater(idx, r);
        }
        return;
    }

    throw new IllegalStateException("Unhandled HLL++ merge combination");
}

/**
 * Merge this HLL++ with a bunch of others! The power of minions!
 * <p/>
 * Most of the logic consists of case analysis about the state of this HLL++ and each one it wants to merge
 * with. If either of them is 'normal' mode then the other converts to 'normal' as well. A touching sacrifice.
 * 'Normal's combine just like regular HLL estimators do.
 * <p/>
 * If they happen to be both sparse, then it checks if their combined size would be too large and if so, they get
 * relegated to normal mode anyway. Otherwise, the mergeEstimators function is called, and a new sparse HLL++
is born.
 *
 * @param estimators the estimators to merge with this one
 * @return a new estimator with their combined knowledge
 * @throws CardinalityMergeException
 */

@Override
public ICardinality merge(ICardinality... estimators) throws CardinalityMergeException {
    HyperLogLogPlus merged = new HyperLogLogPlus(p, sp);
    merged.addAll(this);
}

```

```

    if (estimators == null) {
        return merged;
    }

    for (ICardinality estimator : estimators) {
        if (!(estimator instanceof HyperLogLogPlus)) {
            throw new HyperLogLogPlusMergeException("Cannot merge estimators of different class");
        }
        HyperLogLogPlus hll = (HyperLogLogPlus) estimator;
        merged.addAll(hll);
    }

    return merged;
}

/**
 * exposed for testing
 */
protected RegisterSet getRegisterSet() {
    return registerSet;
}

/**
 * exposed for testing
 */
protected int[] getSparseSet() {
    return sparseSet;
}

public static class Builder implements IBuilder<ICardinality>, Serializable {

    private final int p;
    private final int sp;

    public Builder(int p, int sp) {
        this.p = p;
        this.sp = sp;
    }

    @Override
    public HyperLogLogPlus build() {
        return new HyperLogLogPlus(p, sp);
    }

    @Override
    public int sizeof() {
        int k = (int) Math.pow(2, p);

```

```

        return RegisterSet.getBits(k) * 5;
    }

    public static HyperLogLogPlus build(byte[] bytes) throws IOException {
        ByteArrayInputStream bais = new ByteArrayInputStream(bytes);
        DataInputStream oi = new DataInputStream(bais);
        int version = oi.readInt();
        // the new encoding scheme includes a version field
        // that is always negative. If the version field
        // is not present then we'll use the legacy
        // decoding method
        if (version < 0) {
            return decodeBytes(oi);
        } else {
            // need to re-create this stream
            // because the first int read above
            // is not present in the legacy codec
            bais = new ByteArrayInputStream(bytes);
            oi = new DataInputStream(bais);
            return legacyDecode(oi);
        }
    }

    public static HyperLogLogPlus build(DataInput oi) throws IOException {
        int version = oi.readInt();
        // the new encoding scheme includes a version field
        // that is always negative. If the version field
        // is not present then we'll use the legacy
        // decoding method
        if (version < 0) {
            return decodeBytes(oi);
        } else {
            return legacyDecode(oi);
        }
    }

    private static HyperLogLogPlus legacyDecode(DataInput oi) throws IOException {
        int p = oi.readInt();
        int sp = oi.readInt();
        int formatType = oi.readInt();
        if (formatType == 0) {
            int size = oi.readInt();
            byte[] longArrayBytes = new byte[size];
            oi.readFully(longArrayBytes);
            HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, new RegisterSet((int) Math.pow(2,
p), Bits.getBits(longArrayBytes)));
            hyperLogLogPlus.format = Format.NORMAL;
            return hyperLogLogPlus;
        }
    }

```

```

    } else {
        int l;
        List<byte[]> deltaByteSet = new ArrayList<byte[]>();
        while ((l = oi.readInt()) > 0) {
            byte[] longArrayBytes = new byte[l];
            oi.readFully(longArrayBytes, 0, l);
            deltaByteSet.add(longArrayBytes);
        }
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, deltaByteSet);
        hyperLogLogPlus.format = Format.SPARSE;
        return hyperLogLogPlus;
    }
}

private static HyperLogLogPlus decodeBytes(DataInput oi) throws IOException {
    int p = Varint.readUnsignedVarInt(oi);
    int sp = Varint.readUnsignedVarInt(oi);
    int formatType = Varint.readUnsignedVarInt(oi);
    if (formatType == 0) {
        int size = Varint.readUnsignedVarInt(oi);
        byte[] longArrayBytes = new byte[size];
        oi.readFully(longArrayBytes);
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, new RegisterSet((int) Math.pow(2,
p), Bits.getBits(longArrayBytes)));
        hyperLogLogPlus.format = Format.NORMAL;
        return hyperLogLogPlus;
    } else {
        int[] rehydratedSparseSet = new int[Varint.readUnsignedVarInt(oi)];
        int prevDeltaRead = 0;
        for (int i = 0; i < rehydratedSparseSet.length; i++) {
            int nextVal = Varint.readUnsignedVarInt(oi) + prevDeltaRead;
            rehydratedSparseSet[i] = nextVal;
            prevDeltaRead = nextVal;
        }
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, rehydratedSparseSet);
        hyperLogLogPlus.format = Format.SPARSE;
        return hyperLogLogPlus;
    }
}
}
}

```

```
@SuppressWarnings("serial")
```

```
protected static class HyperLogLogPlusMergeException extends CardinalityMergeException {
```

```
    public HyperLogLogPlusMergeException(String message) {
```

```
        super(message);
```

```
    }
```

```
}
```

```

private Object writeReplace() {
    return new SerializationHolder(this);
}

/**
 * This class exists to support Externalizable semantics for
 * HyperLogLog objects without having to expose a public
 * constructor, public write/read methods, or pretend final
 * fields aren't final.
 *
 * In short, Externalizable allows you to skip some of the more
 * verbose meta-data default Serializable gets you, but still
 * includes the class name. In that sense, there is some cost
 * to this holder object because it has a longer class name. I
 * imagine people who care about optimizing for that have their
 * own work-around for long class names in general, or just use
 * a custom serialization framework. Therefore we make no attempt
 * to optimize that here (eg. by raising this from an inner class
 * and giving it an unhelpful name).
 */
private static class SerializationHolder implements Externalizable {

    HyperLogLogPlus hyperLogLogHolder;

    public SerializationHolder(HyperLogLogPlus hyperLogLogHolder) {
        this.hyperLogLogHolder = hyperLogLogHolder;
    }

    /**
     * required for Externalizable
     */
    public SerializationHolder() {

    }

    @Override
    public void writeExternal(ObjectOutput out) throws IOException {
        hyperLogLogHolder.writeBytes(out);
    }

    @Override
    public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
        hyperLogLogHolder = Builder.build(in);
    }

    private Object readResolve() {
        return hyperLogLogHolder;
    }
}

```

```

    }
}

}
/*
 * Copyright (C) 2011 Clearspring Technologies, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package com.clearspring.analytics.stream;

import java.util.List;

public interface ISampleSet<T> {

    long put(T element);

    long put(T element, int incrementCount);

    T removeRandom();

    T peek();

    List<T> peek(int k);

    int size();

    long count();
}
/*
 * Copyright (C) 2011 Clearspring Technologies, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *

```

```
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package com.clearspring.analytics.stream;
```

```
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Random;
```

```
public class SampleSet<T> implements ISampleSet<T> {
```

```
    private Map<T, Node<T>> sampleMap;
    private int size;
    private long count;
    private Random random;
```

```
    /**
     * Element with the highest frequency in the set
     */
    private Node<T> head;
```

```
    /**
     * Element with the lowest frequency in the set
     */
    private Node<T> tail;
```

```
    public SampleSet() {
        this(7);
    }
```

```
    public SampleSet(int capacity) {
        this(capacity, new Random());
    }
```

```
    public SampleSet(int capacity, Random random) {
        sampleMap = new HashMap<T, Node<T>>(capacity);
        this.random = random;
    }
```

```
    public T peek() {
```



```

    return (head != null) ? head.element : null;
}

public List<T> peek(int k) {
    List<T> topK = new ArrayList<T>(k);
    for (Node<T> itr = head; itr != null && topK.size() < k; itr = itr.next) {
        topK.add(itr.element);
    }
    return topK;
}

public long put(T element) {
    return put(element, 1);
}

public long put(T element, int incrementCount) {
    Node<T> node = sampleMap.get(element);
    if (node != null) {
        node.count = node.count + incrementCount;
        promote(node);
    } else {
        node = new Node<T>();
        node.element = element;
        node.count = incrementCount;
        node.prev = tail;
        if (tail != null) {
            tail.next = node;
        }
        tail = node;
        if (head == null) {
            head = node;
        }
        sampleMap.put(element, node);
        size++;
    }
    count++;
    return node.count;
}

public T removeRandom() {
    double p = random.nextDouble();
    long weight = 0;
    for (Node<T> itr = head; itr != null; itr = itr.next) {
        weight += itr.count;
        if (p < weight / (double) count) {
            itr.count--;
            count--;
            demote(itr);
        }
    }
}

```

```

        if (itr.count == 0) {
            removeMin();
        }
        return itr.element;
    }
}
return null;
}

protected T removeMin() {
    if (tail == null) {
        return null;
    }
    size--;
    count -= tail.count;
    T minElement = tail.element;
    tail = tail.prev;
    if (tail != null) {
        tail.next = null;
    }
    sampleMap.remove(minElement);
    return minElement;
}

public int size() {
    return size;
}

public long count() {
    return count;
}

protected T peekMin() {
    return tail.element;
}

protected void promote(Node<T> node) {
    // Bring node closer to the head as necessary
    while (node.prev != null && node.count > node.prev.count) {
        // BEFORE head... [A]node.prev.prev --> [B]node.prev --> [C]node --> [D]node.next ...tail
        // AFTER  head... [A]node.prev.prev --> [C]node --> [B]node.prev --> [D]node.next ...tail
        Node<T> b = node.prev, c = node, d = node.next, a = (b == null) ? null : b.prev;

        // Re-link each of 3 neighboring pairs
        if (a != null) {
            a.next = c;
        }
        c.prev = a;
    }
}

```

```

c.next = b;
b.prev = c;

b.next = d;
if (d != null) {
    d.prev = b;
}

// B and C may have switched head/tail roles
if (head == b) {
    head = c;
}
if (tail == c) {
    tail = b;
}
}
}

protected void demote(Node<T> node) {
    // Bring node closer to the tail as necessary
    while (node.next != null && node.count < node.next.count) {
        // BEFORE head... [A]node.prev --> [B]node --> [C]node.next --> [D]node.next.next ...tail
        // AFTER head... [A]node.prev --> [C]node.next --> [B]node --> [D]node.next.next ...tail
        Node<T> a = node.prev, b = node, c = node.next, d = (c == null) ? null : c.next;

        // Re-link each of 3 neighboring pairs
        if (a != null) {
            a.next = c;
        }
        c.prev = a;

        c.next = b;
        b.prev = c;

        if (d != null) {
            d.prev = b;
        }
        b.next = d;

        // B and C may have switched head/tail roles
        if (head == b) {
            head = c;
        }
        if (tail == c) {
            tail = b;
        }
    }
}

```

```

}

private class Node<E> {

    private Node<E> next;
    private Node<E> prev;
    private E element;
    private long count;
}
}
/*
 * Copyright (C) 2011 Clearspring Technologies, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package com.clearspring.analytics.util;

import java.util.ConcurrentModificationException;
import java.util.Iterator;

public class DoublyLinkedList<T> implements Iterable<T> {

    protected int size;
    protected ListNode2<T> tail;
    protected ListNode2<T> head;

    /**
     * Append to head of list
     */
    public ListNode2<T> add(T value) {
        ListNode2<T> node = new ListNode2<T>(value);
        if (size++ == 0) {
            tail = node;
        } else {
            node.prev = head;
            head.next = node;
        }
    }
}

```

```

    head = node;

    return node;
}

/**
 * Prepend to tail of list
 */
public ListNode2<T> enqueue(T value) {
    ListNode2<T> node = new ListNode2<T>(value);
    if (size++ == 0) {
        head = node;
    } else {
        node.next = tail;
        tail.prev = node;
    }

    tail = node;

    return node;
}

public void add(ListNode2<T> node) {
    node.prev = head;
    node.next = null;

    if (size++ == 0) {
        tail = node;
    } else {
        head.next = node;
    }

    head = node;
}

public ListNode2<T> addAfter(ListNode2<T> node, T value) {
    ListNode2<T> newNode = new ListNode2<T>(value);
    addAfter(node, newNode);
    return newNode;
}

public void addAfter(ListNode2<T> node, ListNode2<T> newNode) {
    newNode.next = node.next;
    newNode.prev = node;
    node.next = newNode;
    if (newNode.next == null) {
        head = newNode;
    }
}

```

```

    } else {
        newNode.next.prev = newNode;
    }
    size++;
}

public void remove(ListNode2<T> node) {
    if (node == tail) {
        tail = node.next;
    } else {
        node.prev.next = node.next;
    }

    if (node == head) {
        head = node.prev;
    } else {
        node.next.prev = node.prev;
    }
    size--;
}

public int size() {
    return size;
}

@Override
public Iterator<T> iterator() {
    return new DoublyLinkedListIterator(this);
}

protected class DoublyLinkedListIterator implements Iterator<T> {

    protected DoublyLinkedList<T> list;
    protected ListNode2<T> itr;
    protected int length;

    public DoublyLinkedListIterator(DoublyLinkedList<T> list) {
        this.length = list.size;
        this.list = list;
        this.itr = list.tail;
    }

    @Override
    public boolean hasNext() {
        return itr != null;
    }
}

```

```

@Override
public T next() {
    if (length != list.size) {
        throw new ConcurrentModificationException();
    }
    T next = itr.value;
    itr = itr.next;
    return next;
}

@Override
public void remove() {
    throw new UnsupportedOperationException();
}

}

public T first() {
    return tail == null ? null : tail.getValue();
}

public T last() {
    return head == null ? null : head.getValue();
}

public ListNode2<T> head() {
    return head;
}

public ListNode2<T> tail() {
    return tail;
}

public boolean isEmpty() {
    return size == 0;
}

@SuppressWarnings("unchecked")
public T[] toArray() {
    T[] a = (T[]) new Object[size];
    int i = 0;
    for (T v : this) {
        a[i++] = v;
    }
    return a;
}
}

```

# 1.863 stream-consume 0.1.0

## 1.863.1 Available under license :

# stream-consume

A node module ensures a Readable stream continues flowing if it's not piped to another destination.

```
npm install stream-consume
```

## Usage

Simply pass a stream to `stream-consume`.  
Both legacy streams and streams2 are supported.

```
``` js
var consume = require('stream-consume');
```

```
consume(readableStream);
```
```

## Details

Only Readable streams are processed (as determined by presence of `readable` property and a `resume` property that is a function). If called with anything else, it's a NOP.

For a streams2 stream (as determined by presence of a `readableState` property), nothing is done if the stream has already been piped to at least one other destination.

`resume()` is used to cause the stream to continue flowing.

## License

The MIT License (MIT)

Copyright (c) 2014 Aron Nopanen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:



The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.864 stream-counter 0.2.0

### 1.864.1 Available under license :

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.865 string-length 1.0.1

### 1.865.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.866 string\_decoder 0.10.31

### 1.866.1 Available under license :

Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.867 string\_decoder 0.10.31

### 1.867.1 Available under license :

Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.868 stringify-object 1.0.1

### 1.868.1 Available under license :

Copyright (c) 2015, Yeoman team  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.869 stringstream 0.0.4

## 1.869.1 Available under license :

Copyright 2012 Michael Hart (michael.hart.au@gmail.com)

This project is free software released under the MIT license:  
<http://www.opensource.org/licenses/mit-license.php>

# 1.870 stringstream 0.0.5

## 1.870.1 Available under license :

Copyright (c) 2012 Michael Hart (michael.hart.au@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.871 StringTemplate 3.2.1

## 1.871.1 Available under license :

/\*

[The "BSD licence"]

Copyright (c) 2003-2005 Terence Parr

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

# 1.872 strip-ansi 3.0.0

## 1.872.1 Available under license :

```
# strip-ansi [![Build Status](https://travis-ci.org/sindresorhus/strip-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/strip-ansi)
```

```
> Strip [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)
```

```
## Install
```

```
---
```

```
$ npm install --save strip-ansi
```

```
---
```

```
## Usage
```

```
```js
```

```
var stripAnsi = require('strip-ansi');
```

```
stripAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> 'cake'
```

```
```
```

```
## Related
```

- [strip-ansi-cli](https://github.com/sindresorhus/strip-ansi-cli) - CLI for this module
- [has-ansi](https://github.com/sindresorhus/has-ansi) - Check if a string has ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

## License

MIT Â© [Sindre Sorhus](http://sindresorhus.com)

## 1.873 strip-bom 2.0.0

### 1.873.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.874 strip-bom 1.0.0

### 1.874.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.875 strip-indent 1.0.1

### 1.875.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.876 strip-json-comments 1.0.4

## 1.876.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.877 strip-json-comments 0.1.3

### 1.877.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN



THE SOFTWARE.

# 1.878 success-symbol 0.1.0

## 1.878.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015, Jon Schlinkert.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.879 supports-color 2.0.0

## 1.879.1 Available under license :

```
# supports-color [![Build Status](https://travis-ci.org/chalk/supports-color.svg?branch=master)](https://travis-ci.org/chalk/supports-color)
```

```
> Detect whether a terminal supports color
```

```
## Install
```

```
---
```

```
$ npm install --save supports-color
```

```
---
```

```
## Usage
```

```
```js
```

```
var supportsColor = require('supports-color');

if (supportsColor) {
  console.log("Terminal supports color");
}
...

```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

## ## Related

- [supports-color-cli](<https://github.com/chalk/supports-color-cli>) - CLI for this module
- [chalk](<https://github.com/chalk/chalk>) - Terminal string styling done right

## ## License

MIT Â© [Sindre Sorhus](<http://sindresorhus.com>)

# 1.880 tablesorter 2.25.1

## 1.880.1 Available under license :

- \* Copyright (c) 2007 Christian Bach.
  - \* Original examples and docs at: [<http://tablesorter.com>]([//tablesorter.com](http://tablesorter.com)).
  - \* Dual licensed under the [MIT]([//www.opensource.org/licenses/mit-license.php](http://www.opensource.org/licenses/mit-license.php)) and [GPL]([//www.gnu.org/licenses/gpl.html](http://www.gnu.org/licenses/gpl.html)) licenses.
- /\*

Copyright 2014 Igor Vaynberg

Version: 3.4.6 Timestamp: Sat Mar 22 22:30:15 EDT 2014

This software is licensed under the Apache License, Version 2.0 (the "Apache License") or the GNU General Public License version 2 (the "GPL License"). You may choose either license to govern your use of this software only upon the condition that you accept all of the terms of either the Apache License or the GPL License.

You may obtain a copy of the Apache License and the GPL License at:

<http://www.apache.org/licenses/LICENSE-2.0>  
<http://www.gnu.org/licenses/gpl-2.0.html>

Unless required by applicable law or agreed to in writing, software distributed under the Apache License or the GPL License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY

KIND,

either express or implied. See the Apache License and the GPL License for the specific language governing permissions and limitations under the Apache License and the GPL License.

\*/

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend,

and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.881 tachyon 0.5.0

## 1.881.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
  
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,



within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.882 tar 2.2.1

## 1.882.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.883 tar 1.23

### 1.883.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you

these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of

works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the



written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the

terms of sections 15 and 16 of this License; or

- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work

in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this

License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:



<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <<http://www.gnu.org/licenses/>>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

## 1.884 tar-fs 1.8.1

### 1.884.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.885 tar-stream 1.3.1

## 1.885.1 Available under license :

Copyright (c) Isaac Z. Schlueter ("Author")

All rights reserved.

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2013, Rod Vagg (the "Original Author")

All rights reserved.

MIT +no-false-attribs License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Distributions of all or part of the Software intended to be used by the recipients as they would use the unmodified Software, containing modifications that substantially alter, remove, or disable functionality of the Software, outside of the documented configuration mechanisms provided by the Software, shall be modified such that the Original Author's bug reporting email addresses and urls are either replaced with the contact information of the parties responsible for the changes, or removed entirely.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except where noted, this license applies to any and all software programs and associated documentation files created by the Original Author, when distributed with the Software.  
The MIT License (MIT)

Copyright (c) 2014 Mathias Buus

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.886 tcpdump 4.0.0 :r3

## 1.886.1 Available under license :

License: BSD

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

/\*

\* Copyright (c) 1993, 1994, 1995, 1996, 1997

\* The Regents of the University of California. All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that: (1) source code distributions

\* retain the above copyright notice and this paragraph in its entirety, (2)

\* distributions including binary code include the above copyright notice and

\* this paragraph in its entirety in the documentation or other materials

\* provided with the distribution, and (3) all advertising materials mentioning

\* features or use of this software display the following acknowledgement:

\* ``This product includes software developed by the University of California,

\* Lawrence Berkeley Laboratory and its contributors." Neither the name of

\* the University nor the names of its contributors may be used to endorse

\* or promote products derived from this software without specific prior

\* written permission.

\* THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED

\* WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF

\* MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

\*

\* @(#) \$Header: /tcpdump/master/tcpdump/lbl/os-osf4.h,v 1.1 2002-12-11 05:03:13 guy Exp \$ (LBL)

\*/

/\*

\* Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998

\* The Regents of the University of California. All rights reserved.

- \*
  - \* Redistribution and use in source and binary forms, with or without
  - \* modification, are permitted provided that the following conditions
  - \* are met:
    - \* 1. Redistributions of source code must retain the above copyright
    - \* notice, this list of conditions and the following disclaimer.
    - \* 2. Redistributions in binary form must reproduce the above copyright
    - \* notice, this list of conditions and the following disclaimer in the
    - \* documentation and/or other materials provided with the distribution.
    - \* 3. All advertising materials mentioning features or use of this software
    - \* must display the following acknowledgement:
      - \* This product includes software developed by the Computer Systems
      - \* Engineering Group at Lawrence Berkeley Laboratory.
    - \* 4. Neither the name of the University nor of the Laboratory may be used
    - \* to endorse or promote products derived from this software without
    - \* specific prior written permission.

\* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND  
 \* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
 \* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
 \* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE  
 \* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
 \* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
 \* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
 \* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
 \* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
 \* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
 \* SUCH DAMAGE.

\*/

/\*-

\* Copyright (c) 1990, 1993  
 \* The Regents of the University of California. All rights reserved.

- \*
  - \* Redistribution and use in source and binary forms, with or without
  - \* modification, are permitted provided that the following conditions
  - \* are met:
    - \* 1. Redistributions of source code must retain the above copyright
    - \* notice, this list of conditions and the following disclaimer.
    - \* 2. Redistributions in binary form must reproduce the above copyright
    - \* notice, this list of conditions and the following disclaimer in the
    - \* documentation and/or other materials provided with the distribution.
    - \* 3. All advertising materials mentioning features or use of this software
    - \* must display the following acknowledgement:
      - \* This product includes software developed by the University of
      - \* California, Berkeley and its contributors.
    - \* 4. Neither the name of the University nor the names of its contributors
    - \* may be used to endorse or promote products derived from this software
    - \* without specific prior written permission.

```
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
# This file is free software; you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.
#
# Originally written by Per Bothner <per@bothner.com>.
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
* Angelos D. Keromytis (kermit@csd.uh.gr) and
* Niels Provos (provos@physnet.uni-hamburg.de).
*
* This code was written by John Ioannidis for BSD/OS in Athens, Greece,
* in November 1995.
*
```

\* Ported to OpenBSD and NetBSD, with additional transforms, in December 1996,  
\* by Angelos D. Keromytis.  
\*  
\* Additional transforms and features in 1997 and 1998 by Angelos D. Keromytis  
\* and Niels Provos.  
\*  
\* Copyright (C) 1995, 1996, 1997, 1998 by John Ioannidis, Angelos D. Keromytis  
\* and Niels Provos.  
\* Copyright (c) 2001, Angelos D. Keromytis.  
\*  
\* Permission to use, copy, and modify this software with or without fee  
\* is hereby granted, provided that this entire notice is included in  
\* all copies of any software which is or includes a copy or  
\* modification of this software.  
\* You may use this code under the GNU public license if you so wish. Please  
\* contribute changes back to the authors under this freer than GPL license  
\* so that we may further the use of strong encryption without limitations to  
\* all.  
\*  
\* THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR  
\* IMPLIED WARRANTY. IN PARTICULAR, NONE OF THE AUTHORS MAKES ANY  
\* REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE  
\* MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR  
\* PURPOSE.  
\*/  
# Copyright (c) 1990, 1996  
# John Robert LoVerso. All rights reserved.  
# SMIV2 parsing copyright (c) 1999  
# William C. Fenner.  
#  
# Redistribution and use in source and binary forms, with or without  
# modification, are permitted provided that the following conditions  
# are met:  
#  
# 1. Redistributions of source code must retain the above copyright  
# notices, this list of conditions and the following disclaimer.  
#  
# 2. Redistributions in binary form must reproduce the above copyright  
# notices, this list of conditions and the following disclaimer in the  
# documentation and/or other materials provided with the distribution.  
#  
# THIS SOFTWARE IS PROVIDED BY THE AUTHORS ``AS IS" AND ANY EXPRESS OR  
# IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES  
# OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  
# IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY DIRECT, INDIRECT,  
# INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
# NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
# DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

```
# THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
# (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
# THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/*
 * Copyright (c) 1993, 1994 Jeffrey C. Mogul, Digital Equipment Corporation,
 * Western Research Laboratory. All rights reserved.
 * Copyright (c) 2001 Compaq Computer Corporation. All rights reserved.
 *
 * Permission to use, copy, and modify this software and its
 * documentation is hereby granted only under the following terms and
 * conditions. Both the above copyright notice and this permission
 * notice must appear in all copies of the software, derivative works
 * or modified versions, and any portions thereof, and both notices
 * must appear in supporting documentation.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND COMPAQ COMPUTER CORPORATION
 * DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING
 * ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO
 * EVENT SHALL COMPAQ COMPUTER CORPORATION BE LIABLE FOR ANY
 * SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
 * AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 * OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
 * SOFTWARE.
 */
```

## 1.887 tftp-server 0.49 :7.el6.x86\_64

### 1.887.1 Available under license :

BSD

## 1.888 thin 1.6.4



# 1.889 thin 1.6.1

## 1.889.1 Available under license :

```
#!/usr/bin/env rackup -s thin
#
# async_chat.ru
# raggi/thin
#
# Created by James Tucker on 2008-06-19.
# Copyright 2008 James Tucker <raggi@rubyforge.org>.
/**
 * Copyright (c) 2005 Zed A. Shaw
 * You can redistribute it and/or modify it under the same terms as Ruby.
 */
Thin
====
```

Tiny, fast & funny HTTP server

Thin is a Ruby web server that glues together 3 of the best Ruby libraries in web history:

- \* The Mongrel parser: the root of Mongrel speed and security
- \* Event Machine: a network I/O library with extremely high scalability, performance and stability
- \* Rack: a minimal interface between webservers and Ruby frameworks

Which makes it, with all humility, the most secure, stable, fast and extensible Ruby web server bundled in an easy to use gem for your own pleasure.

Site: <http://code.macournoyer.com/thin/>  
Group: <http://groups.google.com/group/thin-ruby/topics>  
Bugs: <http://github.com/macournoyer/thin/issues>  
Code: <http://github.com/macournoyer/thin>  
IRC: #thin on freenode

Installation

=====

For the latest stable version:

```
'gem install thin'
```

Or from source:

```
'''
```

```
git clone git://github.com/macournoyer/thin.git
```

```
cd thin
rake install
"
```

## Usage

=====

A +thin+ script offers an easy way to start your Rack application:

```
"
cd to/your/app
thin start
"
```

When using with Rails and Bundler, make sure to add 'gem 'thin'  
to your Gemfile.

See example directory for samples and run 'thin -h' for usage.

## License

=====

Ruby License, <http://www.ruby-lang.org/en/LICENSE.txt>.

## Credits

=====

The parser was stolen from Mongrel <http://mongrel.rubyforge.org> by Zed Shaw.  
Mongrel is copyright 2007 Zed A. Shaw and contributors. It is licensed under  
the Ruby license and the GPL2.

Thin is copyright Marc-Andre Cournoyer <[macournoyer@gmail.com](mailto:macournoyer@gmail.com)>

Get help at <http://groups.google.com/group/thin-ruby/>

Report bugs at <https://github.com/macournoyer/thin/issues>

and major security issues directly to me [macournoyer@gmail.com](mailto:macournoyer@gmail.com).

Ruby is copyrighted free software by Yukihiro Matsumoto <[matz@netlab.jp](mailto:matz@netlab.jp)>.

You can redistribute it and/or modify it under either the terms of the  
2-clause BSD (see the file BSD), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing

the author to include your modifications in the software.

- b) use the modified software only within your corporation or organization.
- c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
- d) make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

- a) distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
- b) accompany the distribution with the machine-readable source of the software.
- c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.
- d) make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

For the list of those files and their copying conditions, see the file LEGAL.

5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## 1.890 thor 0.19.1

# 1.891 thread\_safe 0.3.5

## 1.891.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable

from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.892 throttleit 0.0.2

## 1.893 through 2.3.8

### 1.893.1 Available under license :

Apache License, Version 2.0

Copyright (c) 2011 Dominic Tarr

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and  
limitations under the License.

The MIT License

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge,  
to any person obtaining a copy of this software and  
associated documentation files (the "Software"), to  
deal in the Software without restriction, including  
without limitation the rights to use, copy, modify,  
merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom  
the Software is furnished to do so,  
subject to the following conditions:

The above copyright notice and this permission notice  
shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.894 through 2.0.0

### 1.894.1 Available under license :

Copyright 2013, Rod Vagg (the "Original Author")  
All rights reserved.

MIT +no-false-attribs License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Distributions of all or part of the Software intended to be used by the recipients as they would use the unmodified Software, containing modifications that substantially alter, remove, or disable functionality of the Software, outside of the documented configuration mechanisms provided by the Software, shall be modified such that the Original Author's bug reporting email addresses and urls are either replaced with the contact information of the parties responsible for the changes, or removed entirely.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



Except where noted, this license applies to any and all software programs and associated documentation files created by the Original Author, when distributed with the Software.

## 1.895 tildify 1.1.2

### 1.895.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.896 tilt 2.0.1

### 1.896.1 Available under license :

Copyright (c) 2010 Ryan Tomayko <<http://tomayko.com/about>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.897 tilt 1.4.1

### 1.897.1 Available under license :

Copyright (c) 2010 Ryan Tomayko <<http://tomayko.com/about>>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.898 timed-out 2.0.0

### 1.898.1 Available under license :

The MIT License (MIT)

Copyright (c) Vsevolod Strukchinsky <[floatdrop@gmail.com](mailto:floatdrop@gmail.com)>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.899 tinycolor 0.0.1

### 1.899.1 Available under license :

MIT License Copyright (c) 2012 Einar Otto Stangvik All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.900 tmp 0.0.24

### 1.900.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 KARASZI István

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.901 topojson 1.6.18

### 1.901.1 Available under license :

Copyright (c) 2012, Michael Bostock  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.902 touch 0.0.3

### 1.902.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES

WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

# 1.903 tough-cookie 2.2.1

## 1.903.1 Available under license :

Copyright (c) 2015, Salesforce.com, Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Salesforce.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===

The following exceptions apply:

===

`public\_suffix\_list.dat` was obtained from  
<[https://publicsuffix.org/list/public\\_suffix\\_list.dat](https://publicsuffix.org/list/public_suffix_list.dat)> via  
<<http://publicsuffix.org>>. The license for this file is MPL/2.0. The header of that file reads as follows:

// This Source Code Form is subject to the terms of the Mozilla Public  
// License, v. 2.0. If a copy of the MPL was not distributed with this  
// file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

# 1.904 tough-cookie 2.0.0

## 1.904.1 Available under license :

Copyright (c) 2015, Salesforce.com, Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Salesforce.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===

The following exceptions apply:

===

`pubSufTest()` of generate-pubsuffix.js is in the public domain.

// Any copyright is dedicated to the Public Domain.  
// <http://creativecommons.org/publicdomain/zero/1.0/>

===

`public-suffix.txt` was obtained from

<[https://mxr.mozilla.org/mozilla-central/source/netwerk/dns/effective\\_tld\\_names.dat?raw=1](https://mxr.mozilla.org/mozilla-central/source/netwerk/dns/effective_tld_names.dat?raw=1)>  
via <<http://publicsuffix.org>>.

That file contains the usual Mozilla triple-license, for which this project uses it under the terms of the MPL 1.1:

```
// ***** BEGIN LICENSE BLOCK *****
// Version: MPL 1.1/GPL 2.0/LGPL 2.1
//
// The contents of this file are subject to the Mozilla Public License Version
// 1.1 (the "License"); you may not use this file except in compliance with
// the License. You may obtain a copy of the License at
// http://www.mozilla.org/MPL/
//
// Software distributed under the License is distributed on an "AS IS" basis,
// WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
// for the specific language governing rights and limitations under the
// License.
//
// The Original Code is the Public Suffix List.
//
// The Initial Developer of the Original Code is
// Jo Hermans <jo.hermans@gmail.com>.
// Portions created by the Initial Developer are Copyright (C) 2007
// the Initial Developer. All Rights Reserved.
//
// Contributor(s):
// Ruben Arakelyan <ruben@rubenarakelyan.com>
// Gervase Markham <gerv@gerv.net>
// Pamela Greene <pamg.bugs@gmail.com>
// David Triendl <david@triendl.name>
// Jothan Frakes <jothan@gmail.com>
// The kind representatives of many TLD registries
//
// Alternatively, the contents of this file may be used under the terms of
// either the GNU General Public License Version 2 or later (the "GPL"), or
// the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
// in which case the provisions of the GPL or the LGPL are applicable instead
// of those above. If you wish to allow use of your version of this file only
// under the terms of either the GPL or the LGPL, and not to allow others to
// use your version of this file under the terms of the MPL, indicate your
// decision by deleting the provisions above and replace them with the notice
// and other provisions required by the GPL or the LGPL. If you do not delete
// the provisions above, a recipient may use your version of this file under
// the terms of any one of the MPL, the GPL or the LGPL.
//
// ***** END LICENSE BLOCK *****
```

# 1.905 traverse 0.3.9

## 1.905.1 Available under license :

Copyright 2010 James Halliday (mail@substack.net)

This project is free software released under the MIT/X11 license:

<http://www.opensource.org/licenses/mit-license.php>

Copyright 2010 James Halliday (mail@substack.net)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.906 treetop 1.4.15

## 1.906.1 Available under license :

Copyright (c) 2007 Nathan Sobo.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,



FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.907 trim-newlines 1.0.0

### 1.907.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.908 ttfunk 1.4.0

### 1.908.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If

the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

## 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of

copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product,

doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent



that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

## 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express

agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.



GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

ttfunk is copyrighted free software produced by Gregory Brown along with  
community contributions. See git log for authorship information.

Licensing terms follow:

You can redistribute ttfunk and/or modify it under either the terms of the GPLv2

or GPLv3 (see GPLv2 and GPLv3 files), or the conditions below:

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.
  - b) use the modified software only within your corporation or organization.
  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided.
  - d) make other distribution arrangements with the author.
3. You may distribute the software in object code or executable form, provided that you do at least ONE of the following:
  - a) distribute the executables and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.
  - b) accompany the distribution with the machine-readable source of the software.
  - c) give non-standard executables non-standard names, with instructions on where to get the original software distribution.
  - d) make other distribution arrangements with the author.
4. You may modify and include the part of the software into any other software (possibly commercial).
5. The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.
6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

ttfunk may be used under Matz's original licensing terms for Ruby, or GPLv2 or GPLv3. See LICENSE for Matz's terms, or GPLv2 and GPLv3 files.

## 1.909 tunnel-agent 0.4.1

### 1.909.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications



or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.910 twitter4j-core 4.0.2

### 1.910.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### Twitter4J SUBCOMPONENTS:

Twitter4J includes software from JSON.org to parse JSON response from the Twitter API. You can see the license term at <http://www.JSON.org/license.html>

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents



of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## 1.911 tzinfo 1.2.2

## 1.912 udev 147 :0.47.2

### 1.912.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

## REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author



Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License.

## 1.913 uglifier 3.0.0

### 1.913.1 Available under license :

Copyright (c) 2011 Ville Lautanala

Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Software, and to  
permit persons to whom the Software is furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be  
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE  
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION  
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

# 1.914 uglify-js 1.2.5

## 1.914.1 Available under license :

Copyright 2010 (c) Mihai Bazon <mihai.bazon@gmail.com>

Based on parse-js (<http://marijn.haverbeke.nl/parse-js/>).

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent

infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of

such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.  
Copyright 2011 The greplin-exception-catcher Authors.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

/\*

\* Copyright 2010 Matthew Eernisse (mde@fleegix.org)

\* and Open Source Applications Foundation

\*

\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*  
\* Credits: Ideas included from incomplete JS implementation of Olson  
\* parser, "XMLDate" by Philippe Goetz ([philippe.goetz@wanadoo.fr](mailto:philippe.goetz@wanadoo.fr))  
\*  
\* Contributions:  
\* Jan Niehusmann  
\* Ricky Romero  
\* Preston Hunt ([prestonhunt@gmail.com](mailto:prestonhunt@gmail.com)),  
\* Dov. B Katz ([dov.katz@morganstanley.com](mailto:dov.katz@morganstanley.com)),  
\* Peter Bergström ([pbergstr@mac.com](mailto:pbergstr@mac.com))  
\*/

# 1.915 uglify-js\_app.js 1.2.5

## 1.915.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and  
You must cause any modified files to carry prominent notices stating that You changed the files; and  
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by



reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Copyright 2011 The greplin-exception-catcher Authors.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

/\*

\* Copyright 2010 Matthew Eernisse (mde@fleegix.org)

\* and Open Source Applications Foundation

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.
- \*
- \* Credits: Ideas included from incomplete JS implementation of Olson
- \* parser, "XMLDAte" by Philippe Goetz (philippe.goetz@wanadoo.fr)
- \*
- \* Contributions:
- \* Jan Niehusmann
- \* Ricky Romero
- \* Preston Hunt (prestonhunt@gmail.com),
- \* Dov. B Katz (dov.katz@morganstanley.com),
- \* Peter Bergström (pbergstr@mac.com)
- \*/

## 1.916 uid-number 0.0.3

### 1.916.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.917 uid-safe 2.0.0

### 1.917.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jonathan Ong <me@jungleberry.com>

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.918 Uncommons Maths 1.2.2a

### 1.918.1 Available under license :

Apache License, Version 2.0

<http://www.apache.org/licenses/LICENSE-2.0.html>

## 1.919 underscore 1.8.2

### 1.919.1 Available under license :

Copyright (c) 2009-2015 Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR

## 1.920 unf 0.1.4

### 1.920.1 Available under license :

Copyright (c) 2011, 2012 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.921 unf\_ext 0.0.7.2

### 1.921.1 Available under license :

The MIT License

Copyright (c) 2010 Takeru Ohta <phjgt308@gmail.com>

Copyright (c) 2011-2015 Akinori MUSHA <knu@idaemons.org> (extended Ruby support)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.922 union 0.3.8

### 1.922.1 Available under license :

Copyright (c) 2011 Nodejitsu Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.923 unique-stream 1.0.0

### 1.923.1 Available under license :

Copyright 2014 Eugene Ware

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.924 unpipe 1.0.0

### 1.924.1 Available under license :

(The MIT License)

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.925 unpipe 1.0.0

### 1.925.1 Available under license :

(The MIT License)

Copyright (c) 2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.926 untildify 2.1.0

### 1.926.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.927 unused 1.0.0

## 1.927.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,



the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.928 user-home 1.1.1

### 1.928.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <[sindresorhus@gmail.com](mailto:sindresorhus@gmail.com)> ([sindresorhus.com](http://sindresorhus.com))

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
THE SOFTWARE.

## 1.929 util-deprecate 1.0.2

### 1.929.1 Available under license :

(The MIT License)

Copyright (c) 2014 Nathan Rajlich <[nathan@tootallnate.net](mailto:nathan@tootallnate.net)>

Permission is hereby granted, free of charge, to any person

obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.930 util-deprecate 1.0.1

### 1.930.1 Available under license :

(The MIT License)

Copyright (c) 2014 Nathan Rajlich <nathan@tootallnate.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.931 utile 0.2.1

## 1.931.1 Available under license :

Copyright (c) 2010 Nodejitsu Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.932 utils-merge 1.0.0

## 1.932.1 Available under license :

(The MIT License)

Copyright (c) 2013 Jared Hanson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN

## 1.933 utils-merge 1.0.0

### 1.933.1 Available under license :

(The MIT License)

Copyright (c) 2013 Jared Hanson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.934 uuid 2.0.1

### 1.934.1 Available under license :

Copyright (c) 2010-2012 Robert Kieffer

MIT License - <http://opensource.org/licenses/mit-license.php>

## 1.935 v8flags 2.0.10

### 1.935.1 Available under license :

Copyright (c) 2014 Tyler Kellen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.936 validate-npm-package-license 3.0.1

### 1.936.1 Available under license :

SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source,



and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in

this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated

in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

# 1.937 validation-api 1.1.0.Final

## 1.937.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

## 1.938 vary 1.0.1

### 1.938.1 Available under license :

(The MIT License)

Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.939 vary 1.0.1



## 1.939.1 Available under license :

(The MIT License)

Copyright (c) 2014-2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.940 vcr 3.0.0

### 1.940.1 Available under license :

Copyright (c) 2010-2015 Myron Marston

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

## 1.941 vcr 3.0.1

### 1.941.1 Available under license :

Copyright (c) 2010-2015 Myron Marston

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.942 vegas 0.1.11

## 1.943 velocity 1.5

### 1.943.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.944 warden 1.2.3

## 1.945 webhdfs 0.6.0

### 1.945.1 Available under license :

Copyright (C) 2012 Fluentd Project

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.946 webmock 1.18.0

### 1.946.1 Available under license :

Copyright (c) 2009-2010 Bartosz Blimke

Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
"Software"), to deal in the Software without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Software, and to  
permit persons to whom the Software is furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be  
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE  
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION  
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION  
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.947 wget 1.12

## 1.947.1 Available under license :

@c The GNU Free Documentation License.

@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008, 2009 Free Software Foundation, Inc.

@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@end display

@enumerate 0

@item

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS



This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent.

An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent" is called ``Opaque".

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher" means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements", ``Dedications", ``Endorsements", or ``History".) To ``Preserve the Title" of such a section when you modify the Document means that it remains a section ``Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

## VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other

conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item

## COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item

## MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A

@item

Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item

List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item

State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item

Preserve all the copyright notices of the Document.

@item

Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item

Include an unaltered copy of this License.

@item

Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item

Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item

For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item

Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item

Do not retitle any existing section to be Entitled ``Endorsements'' or to conflict in title with any Invariant Section.

@item

Preserve any Warranty Disclaimers.

@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains

nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

#### COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item

#### COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents

released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

#### AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

#### TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve

its Title (section 1) will typically require changing the actual title.

@item

## TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

## FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document



specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site" (or ``MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration" (or ``MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page

@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample

@group

Copyright (C) @var{year} @var{your name}.

Permission is granted to copy, distribute and/or modify this document

under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License".

@end group

@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{ }Texts." line with this:

@smallexample

@group

with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.

@end group

@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the

GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that

patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your

rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product



is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and

propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

## 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY

OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short  
notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, your program's commands  
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,  
if any, to sign a "copyright disclaimer" for the program, if necessary.  
For more information on this, and how to apply and follow the GNU GPL, see  
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program  
into proprietary programs. If your program is a subroutine library, you  
may consider it more useful to permit linking proprietary applications with  
the library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License. But first, please read  
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

## 1.948 which 1.1.2

### 1.948.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any  
purpose with or without fee is hereby granted, provided that the above  
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES  
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF



MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.949 win-release 1.1.1

### 1.949.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.950 wordwrap 0.0.3

### 1.950.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.951 wordwrap 0.0.3

### 1.951.1 Available under license :

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.952 wrappy 1.0.1

### 1.952.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR

## 1.953 wrappy 1.0.1

### 1.953.1 Available under license :

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.954 write-file-atomic 1.1.4

### 1.954.1 Available under license :

Copyright (c) 2015, Rebecca Turner

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 1.955 ws 0.4.32

### 1.955.1 Available under license :

[![Build Status](https://secure.travis-ci.org/einaros/ws.png)](http://travis-ci.org/einaros/ws)

# ws: a node.js websocket library #

`ws` is a simple to use websocket implementation, up-to-date against RFC-6455, and [probably the fastest

WebSocket library for node.js](<http://web.archive.org/web/20130314230536/http://hobbycoding.posterous.com/the-fastest-websocket-module-for-nodejs>).

Passes the quite extensive Autobahn test suite. See <http://einaros.github.com/ws> for the full reports.

Comes with a command line utility, `wscat`, which can either act as a server (`--listen`), or client (`--connect`); Use it to debug simple websocket services.

## Protocol support ##

\* \*\*Hixie draft 76\*\* (Old and deprecated, but still in use by Safari and Opera. Added to ws version 0.4.2, but server only. Can be disabled by setting the `disableHixie` option to true.)

\* \*\*HyBi drafts 07-12\*\* (Use the option `protocolVersion: 8`, or argument `-p 8` for `wscat`)

\* \*\*HyBi drafts 13-17\*\* (Current default, alternatively option `protocolVersion: 13`, or argument `-p 13` for `wscat`)

\_See the [echo.websocket.org](http://echo.websocket.org) example below for how to use the `protocolVersion` option.\_

## Usage ##

### Installing ###

```
`npm install ws`
```

### Sending and receiving text data ###

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
  ws.send('something');
});
ws.on('message', function(data, flags) {
  // flags.binary will be set if a binary data is received
  // flags.masked will be set if the data was masked
});
```
```

### Sending binary data ###

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
  var array = new Float32Array(5);
  for (var i = 0; i < array.length; ++i) array[i] = i / 2;
  ws.send(array, {binary: true, mask: true});
});
```
```

Setting `mask`, as done for the send options above, will cause the data to be masked according to the websocket protocol. The same option applies for text data.

### Server example ###

```
```js
var WebSocketServer = require('ws').Server
, wss = new WebSocketServer({port: 8080});
wss.on('connection', function(ws) {
  ws.on('message', function(message) {
    console.log('received: %s', message);
  });
  ws.send('something');
});
```
```

### Server sending broadcast data ###

```
```js
var WebSocketServer = require('ws').Server
, wss = new WebSocketServer({port: 8080});

wss.broadcast = function(data) {
  for(var i in this.clients)
    this.clients[i].send(data);
};
```
```

### Error handling best practices ###

```
```js
// If the WebSocket is closed before the following send is attempted
ws.send('something');

// Errors (both immediate and async write errors) can be detected in an optional callback.
// The callback is also the only way of being notified that data has actually been sent.
ws.send('something', function(error) {
  // if error is null, the send has been completed,
  // otherwise the error object will indicate what failed.
});

// Immediate errors can also be handled with try/catch-blocks, but **note**
// that since sends are inherently asynchronous, socket write failures will *not*
// be captured when this technique is used.
try {
  ws.send('something');
}
```
```

```

catch (e) {
  // handle error
}
...

### echo.websocket.org demo ###

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://echo.websocket.org/', { protocolVersion: 8, origin: 'http://websocket.org' });
ws.on('open', function() {
  console.log('connected');
  ws.send(Date.now().toString(), { mask: true });
});
ws.on('close', function() {
  console.log('disconnected');
});
ws.on('message', function(data, flags) {
  console.log('Roundtrip time: ' + (Date.now() - parseInt(data)) + 'ms', flags);
  setTimeout(function() {
    ws.send(Date.now().toString(), { mask: true });
  }, 500);
});
...

```

```
### wscat against echo.websocket.org ###
```

```

$ npm install -g ws
$ wscat -c ws://echo.websocket.org
connected (press CTRL+C to quit)
> hi there
< hi there
> are you a happy parrot?
< are you a happy parrot?

```

```
### Other examples ###
```

For a full example with a browser client communicating with a ws server, see the examples folder.

Note that the usage together with Express 3.0 is quite different from Express 2.x. The difference is expressed in the two different serverstats-examples.

Otherwise, see the test cases.

```
### Running the tests ###
```

```
`make test`
```

## API Docs ##

See the doc/ directory for Node.js-like docs for the ws classes.

## License ##

(The MIT License)

Copyright (c) 2011 Einar Otto Stangvik <einaros@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.956 xdg-basedir 1.0.1

### 1.956.1 Available under license :

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.957 xml2js 0.4.4

### 1.957.1 Available under license :

Copyright 2010, 2011, 2012, 2013. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.958 xmlbuilder 0.4.2

### 1.958.1 Available under license :

# xmlbuilder-js

An XMLBuilder for [node.js](http://nodejs.org/) similar to [java-xmlbuilder](http://code.google.com/p/java-xmlbuilder/).

[![Build Status](https://secure.travis-ci.org/oozcitak/xmlbuilder-js.png)](http://travis-ci.org/oozcitak/xmlbuilder-js)

### Installation:

```
``` sh
npm install xmlbuilder
```
```



### ### Important:

I had to break compatibility while adding multiple instances in 0.1.3.

As a result, version from v0.1.3 are **\*\*not\*\*** compatible with previous versions.

### ### Usage:

```
``` js
var builder = require('xmlbuilder');
var xml = builder.create('root')
  .ele('xmlbuilder', {'for': 'node-js'})
  .ele('repo', {'type': 'git'}, 'git://github.com/oozcitak/xmlbuilder-js.git')
  .end({ pretty: true});

console.log(xml);
```
```

will result in:

```
``` xml
<?xml version="1.0"?>
<root>
  <xmlbuilder for="node-js">
    <repo type="git">git://github.com/oozcitak/xmlbuilder-js.git</repo>
  </xmlbuilder>
</root>
```
```

If you need to do some processing:

```
``` js
var root = builder.create('squares');
root.com('f(x) = x^2');
for(var i = 1; i <= 5; i++)
{
  var item = root.ele('data');
  item.att('x', i);
  item.att('y', i * i);
}
```
```

This will result in:

```
``` xml
<?xml version="1.0"?>
<squares>
  <!-- f(x) = x^2 -->
  <data x="1" y="1"/>

```

```
<data x="2" y="4"/>
<data x="3" y="9"/>
<data x="4" y="16"/>
<data x="5" y="25"/>
</squares>
...

```

See the [Usage](<https://github.com/oozcitak/xmlbuilder-js/wiki/Usage>) page in the wiki for more detailed instructions.

### License:

`xmlbuilder-js` is [MIT Licensed](<http://opensource.org/licenses/mit-license.php>).

## 1.959 xmlenc 0.52

### 1.959.1 Available under license :

Copyright 2003-2005, Ernst de Haan <[wfe.dehaan@gmail.com](mailto:wfe.dehaan@gmail.com)>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.960 xmlhttprequest 1.4.2

## 1.960.1 Available under license :

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.961 xtend 4.0.0

## 1.961.1 Available under license :

```
{
  "name": "xtend",
  "version": "4.0.0",
  "description": "extend like a boss",
  "keywords": [
    "extend",
    "merge",
    "options",
    "opts",
    "object",
    "array"
  ],
  "author": "Raynos <raynos2@gmail.com>",
  "repository": "git://github.com/Raynos/xtend.git",
  "main": "immutable",
  "scripts": {
    "test": "node test"
  },
}
```

```
"dependencies": {},
"devDependencies": {
  "tape": "~1.1.0"
},
"homepage": "https://github.com/Raynos/xtend",
"contributors": [
  {
    "name": "Jake Verbaten"
  },
  {
    "name": "Matt Esch"
  }
],
"bugs": {
  "url": "https://github.com/Raynos/xtend/issues",
  "email": "raynos2@gmail.com"
},
"licenses": [
  {
    "type": "MIT",
    "url": "http://github.com/raynos/xtend/raw/master/LICENSE"
  }
],
"testling": {
  "files": "test.js",
  "browsers": [
    "ie/7..latest",
    "firefox/16..latest",
    "firefox/nightly",
    "chrome/22..latest",
    "chrome/canary",
    "opera/12..latest",
    "opera/next",
    "safari/5.1..latest",
    "ipad/6.0..latest",
    "iphone/6.0..latest"
  ]
},
"engines": {
  "node": ">=0.4"
}
}
```

## 1.962 xtend 4.0.1

## 1.962.1 Available under license :

Copyright (c) 2012-2014 Raynos.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.963 yajl 1.0.7 :3

### 1.963.1 Available under license :

Copyright 2007-2009, Lloyd Hilaiel.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Lloyd Hilaiel nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,

INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 1.964 yajl-ruby 1.2.0

### 1.964.1 Available under license :

Copyright (c) 2008-2011 Brian Lopez - <http://github.com/brianmario>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.965 zeparser 0.0.5

### 1.965.1 Available under license :

Copyright (c) 2011, Peter van der Zee

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.



2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

## How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License along  
with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License.

/\*

\* jsjb.toolbox.js - This is part of JSGB, a JavaScript GameBoy Emulator

\* Copyright (C) 2009 Pedro Ladaría <Sonic1980 at Gmail dot com>

\*

\* This program is free software; you can redistribute it and/or

\* modify it under the terms of the GNU General Public License

\* version 2 as published by the Free Software Foundation.

\* The full license is available at <http://www.gnu.org/licenses/gpl.html>

\*

\* This program is distributed in the hope that it will be useful,

\* but WITHOUT ANY WARRANTY; without even the implied warranty of

\* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

\* GNU General Public License for more details.

\*

\*/

\* scrollbar.js v0.1 - A simple scrollbar for JavaScript

\* Copyright (C) 2009 Pedro Ladaría <Sonic1980 at Gmail dot com>

\*

\* This program is free software; you can redistribute it and/or

\* modify it under the terms of the GNU General Public License

\* version 2 as published by the Free Software Foundation.

\* The full license is available at <http://www.gnu.org/licenses/gpl.html>

\*

\* This program is distributed in the hope that it will be useful,

\* but WITHOUT ANY WARRANTY; without even the implied warranty of

\* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

\* GNU General Public License for more details.

# 1.966 zeparser\_benchmark.html 0.0.5

## 1.966.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.



c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

```
/*
```

```
* jsgb.toolbox.js - This is part of JSGB, a JavaScript GameBoy Emulator
```

\* Copyright (C) 2009 Pedro Lalaria <Sonic1980 at Gmail dot com>  
\*  
\* This program is free software; you can redistribute it and/or  
\* modify it under the terms of the GNU General Public License  
\* version 2 as published by the Free Software Foundation.  
\* The full license is available at <http://www.gnu.org/licenses/gpl.html>  
\*  
\* This program is distributed in the hope that it will be useful,  
\* but WITHOUT ANY WARRANTY; without even the implied warranty of  
\* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
\* GNU General Public License for more details.  
\*  
\*/  
\* scrollbar.js v0.1 - A simple scrollbar for JavaScript  
\* Copyright (C) 2009 Pedro Lalaria <Sonic1980 at Gmail dot com>  
\*  
\* This program is free software; you can redistribute it and/or  
\* modify it under the terms of the GNU General Public License  
\* version 2 as published by the Free Software Foundation.  
\* The full license is available at <http://www.gnu.org/licenses/gpl.html>  
\*  
\* This program is distributed in the hope that it will be useful,  
\* but WITHOUT ANY WARRANTY; without even the implied warranty of  
\* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
\* GNU General Public License for more details.

# 1.967 zip 3.0

## 1.967.1 Available under license :

This is version 2007-Mar-4 of the Info-ZIP license.  
The definitive version of this document should be available at  
<ftp://ftp.info-zip.org/pub/infozip/license.html> indefinitely and  
a copy at <http://www.info-zip.org/pub/infozip/license.html>.

Copyright (c) 1990-2007 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as  
the following set of individuals:

Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois,  
Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborth,  
Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz,  
David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko,  
Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs,  
Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda,  
Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren,

Rich Wales, Mike White.

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.
2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.
3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.
4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

## 1.968 zk 1.9.6

## 1.968.1 Available under license :

Copyright (C) 2011 by Hewlett Packard Development Company, L.P.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.969 zkclient 0.3

### 1.969.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.



"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.970 zlib 1.2.3

## 1.970.1 Available under license :

Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,

including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

# 1.971 zmq 1.0.0

## 1.971.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

#### 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

#### 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

#### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

#### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

- a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
- c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
- d) Do one of the following:
  - 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
  - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
- e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

## 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

## 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble



The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we

stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

## 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

## 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;

keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License,

in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
  
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
  
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
  
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
  
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any

tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this

License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this



License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or

modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and

propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may

otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any

author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
```

```
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
```

```
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see <<http://www.gnu.org/licenses/>>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

## 1.972 Zookeeper 3.4.5

## 1.972.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or



Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.973 zookeeper 1.4.11

## 1.973.1 Available under license :

(The MIT License)

Copyright (C) 2008 Phillip Pearson

Copyright (C) 2010 Twitter, Inc.

Permission is hereby granted, free of charge, to any person obtaining  
a copy of this software and associated documentation files (the  
'Software'), to deal in the Software without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Software, and to  
permit persons to whom the Software is furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be  
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY  
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,  
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE  
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache ZooKeeper

Copyright 2009-2011 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

-----  
include/winstdint.h is included only for Windows Client support, as follows:



without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 2.1 Centos Minimal 7.2 :1511

### 2.1.1 GNU GENERAL PUBLIC LICENSE Version 2 :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it,

either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component

itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to

apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 2.1.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1 :

### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble



The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that



system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 2.1.3 GNU GENERAL PUBLIC LICENSE Version 3 :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive

or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work

in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

## 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the



Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

#### 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or

requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify

or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate



parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

## 2.1.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3 :

### GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

#### 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

#### 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

#### 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

#### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

#### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

- a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
- c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
- d) Do one of the following:
  - 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
  - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
- e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

## 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

## 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

# 2.2 wget 1.14 :10.el7\_0.1

## 2.2.1 Available under license :

@c The GNU Free Documentation License.

@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008, 2009, 2010, 2011

Free Software Foundation, Inc.

@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@end display

@enumerate 0

@item

PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain `@sc{ascii}` without markup, Texinfo input format, `La@TeX{}` input format, `@acronym{SGML}` or `@acronym{XML}` using a publicly available `@acronym{DTD}`, and standard-conforming simple `@acronym{HTML}`, PostScript or `@acronym{PDF}` designed for human modification. Examples of transparent image formats include `@acronym{PNG}`, `@acronym{XCF}` and

@acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

## VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item

## COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item

## MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:



@enumerate A

@item

Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item

List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item

State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item

Preserve all the copyright notices of the Document.

@item

Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item

Include an unaltered copy of this License.

@item

Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item

Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item

For any section Entitled ``Acknowledgements" or ``Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item

Delete any section Entitled ``Endorsements". Such a section may not be included in the Modified Version.

@item

Do not retitle any existing section to be Entitled ``Endorsements" or to conflict in title with any Invariant Section.

@item

Preserve any Warranty Disclaimers.

@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or

through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item

## COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item

## COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item

## AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

## TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item

## TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and

will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item

#### FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item

#### RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any

World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration" (or ``MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page

@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample

@group

Copyright (C) @var{year} @var{your name}.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled ``GNU Free Documentation License".

@end group

@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,

replace the ``with@dots{ }Texts." line with this:

```
@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
      GNU GENERAL PUBLIC LICENSE
      Version 3, 29 June 2007
```

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new

free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.



"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works

for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section

7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the

Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could



give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have

permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING

WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

## 3.1 haproxy 1.5.4 :2.el6\_7.1

### 3.1.1 Available under license :

HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it

is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

Of course, users are strongly encouraged to continue the work under GPL as long as possible, since this license has allowed useful enhancements, contributions and fixes from talented people around the world.

Due to the incompatibility between the GPL and the OpenSSL licence, you must apply the GPL/LGPL licence with the following exception:

This program is released under the GPL with the additional exemption that compiling, linking, and/or using OpenSSL is allowed.

The text of the licenses lies in the "doc" directory. All the files provided in this package are covered by the GPL unless expressly stated otherwise in them. Every patch or contribution provided by external people will by default comply with the license of the files it affects, or be rejected.

Willy Tarreau - w@1wt.eu

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or



collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is

void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing

to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING

WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it
```

under certain conditions; type ``show c'` for details.

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
``Gnomovision'` (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

#### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.



c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

## How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 3.2 Ubuntu 14.04.3 Server ISO 14.04.3

## 3.2.1 GNU GENERAL PUBLIC LICENSE Version 2 :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free



software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 3.2.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1 :

### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,  
not price. Our General Public Licenses are designed to make sure that  
you have the freedom to distribute copies of free software (and charge  
for this service if you wish); that you receive source code or can get  
it if you want it; that you can change the software and use pieces of  
it in new free programs; and that you are informed that you can do  
these things.

To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
rights. These restrictions translate to certain responsibilities for  
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain



special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a

license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the



"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

### 3.2.3 GNU GENERAL PUBLIC LICENSE Version 3 :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets this criterion.

## 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the

Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions



apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

## 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent

(such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

## 3.2.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3 :

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

## 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

## 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

## 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the



function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of

the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

## 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

## 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version

of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

## 4.1 Centos Minimal 6.5

### 4.1.1 GNU GENERAL PUBLIC LICENSE Version 2 :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.



12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it
```

under certain conditions; type ``show c'` for details.

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
``Gnomovision'` (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 4.1.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1 :

### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether

this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or

other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy



from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 4.1.3 GNU GENERAL PUBLIC LICENSE Version 3 :

### GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

## 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or



modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an

"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and

protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that

material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under

this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or

hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment

to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software



Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

## How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you

may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

## 4.1.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3 :

### GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

#### 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

#### 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

#### 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

#### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

#### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

## 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities,

conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

## 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

# 5.1 alembic 0.8.7.dev0 :1

## 5.1.1 Available under license :

This is the MIT license: <http://www.opensource.org/licenses/mit-license.php>

Copyright (C) 2009-2016 by Michael Bayer.

Alembic is a trademark of Michael Bayer.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.2 appnope 0.1.0

### 5.2.1 Available under license :

this project is licensed under 2-clause BSD

Copyright (c) 2013, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.3 argparse 1.4.0

### 5.3.1 Available under license :

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

## History

-----

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)



2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

## B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

---

### PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

## BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

-----

### BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at <http://www.pythonlabs.com/logos.html> may be used according to the

permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

#### CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

-----

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: <http://hdl.handle.net/1895.22/1013>".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS

A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

-----  
Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE

FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 5.4 bokeh 0.11.1

### 5.4.1 Available under license :

Copyright (c) 2012, Continuum Analytics, Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Continuum Analytics nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.5 bzip2 1.0.6 :13.el7

### 5.5.1 Available under license :

-----  
This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

## 5.6 cloudpickle 0.1.1 :1

### 5.6.1 Available under license :

This module was extracted from the `cloud` package, developed by PiCloud, Inc.

Copyright (c) 2015, Cloudpickle contributors.  
Copyright (c) 2012, Regents of the University of California.  
Copyright (c) 2009 PiCloud, Inc. <http://www.picloud.com>.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of California, Berkeley nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.7 codecov 2.0.5 :1

### 5.7.1 Available under license :

From RPM File Metadata:<http://www.apache.org/licenses/LICENSE-2.0>

## 5.8 Cython 0.23.5 :1

### 5.8.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by



the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

The original Pyrex code as of 2006-04 is licensed under the following license: "Copyright stuff: Pyrex is free of restrictions. You may use, redistribute, modify and distribute modified versions."

-----

Cython, which derives from Pyrex, is licensed under the Apache 2.0 Software License. More precisely, all modifications and new code made to go from Pyrex to Cython are so licensed.

See LICENSE.txt for more details.

-----

The output of a Cython compilation is NOT considered a derivative work of Cython. Specifically, though the compilation process may embed snippets of varying lengths into the final output, these snippets, as embedded in the output, do not encumber the resulting output with any license restrictions.

## 5.9 decorator 4.0.10 :1

### 5.9.1 Available under license :

Copyright (c) 2005-2015, Michele Simionato  
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in bytecode form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.10 dill 0.2.5

### 5.10.1 Available under license :

This software is part of the open-source mystic project at the California Institute of Technology, and is available subject to the conditions and terms laid out below. By downloading and using this software you are agreeing to the following conditions.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met::

- Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentations and/or other materials provided with the distribution.
- Neither the name of the California Institute of Technology nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2016 California Institute of Technology. All rights reserved.

## 5.11 docker-engine 1.12.2 :1.el7.centos

### 5.11.1 Available under license :

Docker

Copyright 2012-2015 Docker, Inc.

This product includes software developed at Docker, Inc. (<https://www.docker.com>).

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the United States and other governments.

It is your responsibility to ensure that your use and/or transfer does not violate applicable laws.

For more information, please see <https://www.bis.doc.gov>

See also <https://www.apache.org/dev/crypto.html> and/or seek legal counsel.

Attribution-ShareAlike 4.0 International

=====  
Creative Commons Corporation ("Creative Commons") is not a law firm and does not provide legal services or legal advice. Distribution of Creative Commons public licenses does not create a lawyer-client or other relationship. Creative Commons makes its licenses and related information available on an "as-is" basis. Creative Commons gives no warranties regarding its licenses, any material licensed under their terms and conditions, or any related information. Creative Commons disclaims all liability for damages resulting from their use to the fullest extent possible.

## Using Creative Commons Public Licenses

Creative Commons public licenses provide a standard set of terms and conditions that creators and other rights holders may use to share original works of authorship and other material subject to copyright and certain other rights specified in the public license below. The following considerations are for informational purposes only, are not exhaustive, and do not form part of our licenses.

Considerations for licensors: Our public licenses are intended for use by those authorized to give the public permission to use material in ways otherwise restricted by copyright and certain other rights. Our licenses are irrevocable. Licensors should read and understand the terms and conditions of the license they choose before applying it. Licensors should also secure all rights necessary before applying our licenses so that the public can reuse the material as expected. Licensors should clearly mark any material not subject to the license. This includes other CC-licensed material, or material used under an exception or limitation to copyright. More considerations for licensors: [wiki.creativecommons.org/Considerations\\_for\\_licensors](http://wiki.creativecommons.org/Considerations_for_licensors)

Considerations for the public: By using one of our public licenses, a licensor grants the public permission to use the licensed material under specified terms and conditions. If the licensor's permission is not necessary for any reason--for example, because of any applicable exception or limitation to copyright--then that use is not regulated by the license. Our licenses grant only permissions under copyright and certain other rights that a licensor has authority to grant. Use of the licensed material may still be restricted for other reasons, including because others have copyright or other rights in the material. A licensor may make special requests, such as asking that all changes be marked or described. Although not required by our licenses, you are encouraged to respect those requests where reasonable. More considerations for the public: [wiki.creativecommons.org/Considerations\\_for\\_licensees](http://wiki.creativecommons.org/Considerations_for_licensees)

=====

### Creative Commons Attribution-ShareAlike 4.0 International Public License

By exercising the Licensed Rights (defined below), You accept and agree to be bound by the terms and conditions of this Creative Commons Attribution-ShareAlike 4.0 International Public License ("Public

License"). To the extent this Public License may be interpreted as a contract, You are granted the Licensed Rights in consideration of Your acceptance of these terms and conditions, and the Licensor grants You such rights in consideration of benefits the Licensor receives from making the Licensed Material available under these terms and conditions.

#### Section 1 -- Definitions.

- a. Adapted Material means material subject to Copyright and Similar Rights that is derived from or based upon the Licensed Material and in which the Licensed Material is translated, altered, arranged, transformed, or otherwise modified in a manner requiring permission under the Copyright and Similar Rights held by the Licensor. For purposes of this Public License, where the Licensed Material is a musical work, performance, or sound recording, Adapted Material is always produced where the Licensed Material is synched in timed relation with a moving image.
- b. Adapter's License means the license You apply to Your Copyright and Similar Rights in Your contributions to Adapted Material in accordance with the terms and conditions of this Public License.
- c. BY-SA Compatible License means a license listed at [creativecommons.org/compatiblelicenses](https://creativecommons.org/compatiblelicenses), approved by Creative Commons as essentially the equivalent of this Public License.
- d. Copyright and Similar Rights means copyright and/or similar rights closely related to copyright including, without limitation, performance, broadcast, sound recording, and Sui Generis Database Rights, without regard to how the rights are labeled or categorized. For purposes of this Public License, the rights specified in Section 2(b)(1)-(2) are not Copyright and Similar Rights.
- e. Effective Technological Measures means those measures that, in the absence of proper authority, may not be circumvented under laws fulfilling obligations under Article 11 of the WIPO Copyright Treaty adopted on December 20, 1996, and/or similar international agreements.
- f. Exceptions and Limitations means fair use, fair dealing, and/or any other exception or limitation to Copyright and Similar Rights that applies to Your use of the Licensed Material.
- g. License Elements means the license attributes listed in the name of a Creative Commons Public License. The License Elements of this



Public License are Attribution and ShareAlike.

- h. Licensed Material means the artistic or literary work, database, or other material to which the Licensor applied this Public License.
- i. Licensed Rights means the rights granted to You subject to the terms and conditions of this Public License, which are limited to all Copyright and Similar Rights that apply to Your use of the Licensed Material and that the Licensor has authority to license.
- j. Licensor means the individual(s) or entity(ies) granting rights under this Public License.
- k. Share means to provide material to the public by any means or process that requires permission under the Licensed Rights, such as reproduction, public display, public performance, distribution, dissemination, communication, or importation, and to make material available to the public including in ways that members of the public may access the material from a place and at a time individually chosen by them.
- l. Sui Generis Database Rights means rights other than copyright resulting from Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, as amended and/or succeeded, as well as other essentially equivalent rights anywhere in the world.
- m. You means the individual or entity exercising the Licensed Rights under this Public License. Your has a corresponding meaning.

## Section 2 -- Scope.

### a. License grant.

1. Subject to the terms and conditions of this Public License, the Licensor hereby grants You a worldwide, royalty-free, non-sublicensable, non-exclusive, irrevocable license to exercise the Licensed Rights in the Licensed Material to:
  - a. reproduce and Share the Licensed Material, in whole or in part; and
  - b. produce, reproduce, and Share Adapted Material.
2. Exceptions and Limitations. For the avoidance of doubt, where Exceptions and Limitations apply to Your use, this Public

License does not apply, and You do not need to comply with its terms and conditions.

3. Term. The term of this Public License is specified in Section 6(a).

4. Media and formats; technical modifications allowed. The Licensor authorizes You to exercise the Licensed Rights in all media and formats whether now known or hereafter created, and to make technical modifications necessary to do so. The Licensor waives and/or agrees not to assert any right or authority to forbid You from making technical modifications necessary to exercise the Licensed Rights, including technical modifications necessary to circumvent Effective Technological Measures. For purposes of this Public License, simply making modifications authorized by this Section 2(a) (4) never produces Adapted Material.

5. Downstream recipients.

a. Offer from the Licensor -- Licensed Material. Every recipient of the Licensed Material automatically receives an offer from the Licensor to exercise the Licensed Rights under the terms and conditions of this Public License.

b. Additional offer from the Licensor -- Adapted Material. Every recipient of Adapted Material from You automatically receives an offer from the Licensor to exercise the Licensed Rights in the Adapted Material under the conditions of the Adapter's License You apply.

c. No downstream restrictions. You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, the Licensed Material if doing so restricts exercise of the Licensed Rights by any recipient of the Licensed Material.

6. No endorsement. Nothing in this Public License constitutes or may be construed as permission to assert or imply that You are, or that Your use of the Licensed Material is, connected with, or sponsored, endorsed, or granted official status by, the Licensor or others designated to receive attribution as provided in Section 3(a)(1)(A)(i).

b. Other rights.

1. Moral rights, such as the right of integrity, are not licensed under this Public License, nor are publicity, privacy, and/or other similar personality rights; however, to the extent possible, the Licensor waives and/or agrees not to assert any such rights held by the Licensor to the limited extent necessary to allow You to exercise the Licensed Rights, but not otherwise.
2. Patent and trademark rights are not licensed under this Public License.
3. To the extent possible, the Licensor waives any right to collect royalties from You for the exercise of the Licensed Rights, whether directly or through a collecting society under any voluntary or waivable statutory or compulsory licensing scheme. In all other cases the Licensor expressly reserves any right to collect such royalties.

### Section 3 -- License Conditions.

Your exercise of the Licensed Rights is expressly made subject to the following conditions.

#### a. Attribution.

1. If You Share the Licensed Material (including in modified form), You must:
  - a. retain the following if it is supplied by the Licensor with the Licensed Material:
    - i. identification of the creator(s) of the Licensed Material and any others designated to receive attribution, in any reasonable manner requested by the Licensor (including by pseudonym if designated);
    - ii. a copyright notice;
    - iii. a notice that refers to this Public License;
    - iv. a notice that refers to the disclaimer of warranties;
    - v. a URI or hyperlink to the Licensed Material to the extent reasonably practicable;

- b. indicate if You modified the Licensed Material and retain an indication of any previous modifications; and
  - c. indicate the Licensed Material is licensed under this Public License, and include the text of, or the URI or hyperlink to, this Public License.
2. You may satisfy the conditions in Section 3(a)(1) in any reasonable manner based on the medium, means, and context in which You Share the Licensed Material. For example, it may be reasonable to satisfy the conditions by providing a URI or hyperlink to a resource that includes the required information.
  3. If requested by the Licensor, You must remove any of the information required by Section 3(a)(1)(A) to the extent reasonably practicable.

b. ShareAlike.

In addition to the conditions in Section 3(a), if You Share Adapted Material You produce, the following conditions also apply.

1. The Adapter's License You apply must be a Creative Commons license with the same License Elements, this version or later, or a BY-SA Compatible License.
2. You must include the text of, or the URI or hyperlink to, the Adapter's License You apply. You may satisfy this condition in any reasonable manner based on the medium, means, and context in which You Share Adapted Material.
3. You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, Adapted Material that restrict exercise of the rights granted under the Adapter's License You apply.

Section 4 -- Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that apply to Your use of the Licensed Material:

- a. for the avoidance of doubt, Section 2(a)(1) grants You the right to extract, reuse, reproduce, and Share all or a substantial portion of the contents of the database;
- b. if You include all or a substantial portion of the database

contents in a database in which You have Sui Generis Database Rights, then the database in which You have Sui Generis Database Rights (but not its individual contents) is Adapted Material,

including for purposes of Section 3(b); and

- c. You must comply with the conditions in Section 3(a) if You Share all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not replace Your obligations under this Public License where the Licensed Rights include other Copyright and Similar Rights.

#### Section 5 -- Disclaimer of Warranties and Limitation of Liability.

- a. UNLESS OTHERWISE SEPARATELY UNDERTAKEN BY THE LICENSOR, TO THE EXTENT POSSIBLE, THE LICENSOR OFFERS THE LICENSED MATERIAL AS-IS AND AS-AVAILABLE, AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE LICENSED MATERIAL, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHER. THIS INCLUDES, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OR ABSENCE OF ERRORS, WHETHER OR NOT KNOWN OR DISCOVERABLE. WHERE DISCLAIMERS OF WARRANTIES ARE NOT ALLOWED IN FULL OR IN PART, THIS DISCLAIMER MAY NOT APPLY TO YOU.
- b. TO THE EXTENT POSSIBLE, IN NO EVENT WILL THE LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE) OR OTHERWISE FOR ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR OTHER LOSSES, COSTS, EXPENSES, OR DAMAGES ARISING OUT OF THIS PUBLIC LICENSE OR USE OF THE LICENSED MATERIAL, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES, COSTS, EXPENSES, OR DAMAGES. WHERE A LIMITATION OF LIABILITY IS NOT ALLOWED IN FULL OR IN PART, THIS LIMITATION MAY NOT APPLY TO YOU.
- c. The disclaimer of warranties and limitation of liability provided above shall be interpreted in a manner that, to the extent possible, most closely approximates an absolute disclaimer and waiver of all liability.

#### Section 6 -- Term and Termination.

- a. This Public License applies for the term of the Copyright and Similar Rights licensed here. However, if You fail to comply with this Public License, then Your rights under this Public License terminate automatically.

b. Where Your right to use the Licensed Material has terminated under Section 6(a), it reinstates:

1. automatically as of the date the violation is cured, provided it is cured within 30 days of Your discovery of the violation; or
2. upon express reinstatement by the Licensor.

For the avoidance of doubt, this Section 6(b) does not affect any right the Licensor may have to seek remedies for Your violations of this Public License.

- c. For the avoidance of doubt, the Licensor may also offer the Licensed Material under separate terms or conditions or stop distributing the Licensed Material at any time; however, doing so will not terminate this Public License.
- d. Sections 1, 5, 6, 7, and 8 survive termination of this Public License.

#### Section 7 -- Other Terms and Conditions.

- a. The Licensor shall not be bound by any additional or different terms or conditions communicated by You unless expressly agreed.
- b. Any arrangements, understandings, or agreements regarding the Licensed Material not stated herein are separate from and independent of the terms and conditions of this Public License.

#### Section 8 -- Interpretation.

- a. For the avoidance of doubt, this Public License does not, and shall not be interpreted to, reduce, limit, restrict, or impose conditions on any use of the Licensed Material that could lawfully be made without permission under this Public License.
- b. To the extent possible, if any provision of this Public License is deemed unenforceable, it shall be automatically reformed to the minimum extent necessary to make it enforceable. If the provision cannot be reformed, it shall be severed from this Public License without affecting the enforceability of the remaining terms and conditions.
- c. No term or condition of this Public License will be waived and no

failure to comply consented to unless expressly agreed to by the Licensor.

d. Nothing in this Public License constitutes or may be interpreted as a limitation upon, or waiver of, any privileges and immunities that apply to the Licensor or You, including from the legal processes of any jurisdiction or authority.

=====

Creative Commons is not a party to its public licenses. Notwithstanding, Creative Commons may elect to apply one of its public licenses to material it publishes and in those instances will be considered the "Licensor." Except for the limited purpose of indicating that material is shared under a Creative Commons public license or as otherwise permitted by the Creative Commons policies published at [creativecommons.org/policies](http://creativecommons.org/policies), Creative Commons does not authorize the use of the trademark "Creative Commons" or any other trademark or logo of Creative Commons without its prior written consent including, without limitation, in connection with any unauthorized modifications to any of its public licenses or any other arrangements, understandings, or agreements concerning use of licensed material. For the avoidance of doubt, this paragraph does not form part of the public licenses.

Creative Commons may be contacted at [creativecommons.org](http://creativecommons.org).  
Copyright 2014, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2013 Suryandaru Triandana <syndtr@gmail.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity.

For the purposes of this definition, "control" means (i) the power, direct or



indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

### 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole,

provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your

sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) [2009-2011] VMware, Inc. All Rights Reserved.

This product is licensed to you under the Apache License, Version 2.0 (the "License").  
You may not use this product except in compliance with the License.

This product includes a number of subcomponents with separate copyright notices and license terms. Your use of these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE file.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.



Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 Matthew Heon <mheon@redhat.com>

Copyright (c) 2015 Paul Moore <pmoore@redhat.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2014 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.



You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

Copyright 2015 The Linux Foundation.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License (MIT)

Copyright (c) 2015 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>), Google  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Copyright (c) 2013 Honza Pokorny

All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR  
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND  
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.



GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than ``show w'` and ``show c'`; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

```
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

Copyright (c) 2014-2016 The Docker & Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of



this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2014-2016 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2013-2016 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable



(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2014 Vishvananda Ishaya.

Copyright 2014 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Gocheck - A rich testing framework for Go

Copyright (c) 2010-2013 Gustavo Niemeyer <[gustavo@niemeyer.net](mailto:gustavo@niemeyer.net)>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2015 Timothe Peignier. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,

are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 2013-2016 by Maxim Bubliss <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.

<https://github.com/golang/protobuf>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
Copyright 2012 Richard Crowley. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY RICHARD CROWLEY ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL RICHARD CROWLEY OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation

are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Richard Crowley.

Copyright (C) 2013 Jeremy Saenz  
All Rights Reserved.

#### MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and



- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2015-2016 Vincent Demeester

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

runc

Copyright 2012-2015 Docker, Inc.

This product includes software developed at Docker, Inc. (<http://www.docker.com>).

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the United States and other governments.

It is your responsibility to ensure that your use and/or transfer does not violate applicable laws.

For more information, please see <http://www.bis.doc.gov>

See also <http://www.apache.org/dev/crypto.html> and/or seek legal counsel.

Docker

Copyright 2012-2015 Docker, Inc.

This product includes software developed at Docker, Inc. (<https://www.docker.com>).

This product contains software (<https://github.com/kr/pty>) developed by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the United States and other governments.

It is your responsibility to ensure that your use and/or transfer does not violate applicable laws.

For more information, please see <https://www.bis.doc.gov>

See also <https://www.apache.org/dev/crypto.html> and/or seek legal counsel.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright (c) 2014, OmniTI Computer Consulting, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE  
Version 2, December 2004

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.  
The MIT License (MIT)

Copyright (c) 2013 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS



FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,



whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2014-2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Mozilla Public License, version 2.0

### 1. Definitions

#### 1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

#### 1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

### 1.3. Contribution

means Covered Software of a particular Contributor.

### 1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

### 1.5. Incompatible With Secondary Licenses

means

- a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or
- b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

### 1.6. Executable Form

means any form of the work other than Source Code Form.

### 1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

### 1.8. License

means this document.

### 1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

### 1.10. Modifications

means any of the following:

- a. any file in Source Code Form that results from an addition to, deletion

from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

#### 1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

#### 1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

#### 1.13. Source Code Form

means the form of the work preferred for making modifications.

#### 1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

### 2. License Grants and Conditions

#### 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions

or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- a. for any code that a Contributor has removed from Covered Software; or
- b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

#### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

#### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

#### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered

Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

### 4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

### 5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License

shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

## 6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

## 7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

## 8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it

enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

#### Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.



Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible  
With Secondary Licenses, as defined by  
the Mozilla Public License, v. 2.0.  
Copyright (c) 2011 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 Rodrigo Moraes. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2014 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013 npipe authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014-2015 The Docker & Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

Copyright 2013-2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

MIT License

Copyright (c) 2016 Jeremy Saenz & Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ffjson

Copyright (c) 2014, Paul Querna

This product includes software developed by Paul Querna (<http://paul.querna.org/>).

Portions of this software were developed as part of Go, Copyright (c) 2012 The Go Authors.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications



represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Docker

Copyright 2012-2016 Docker, Inc.

This product includes software developed at Docker, Inc. (<https://www.docker.com>).

This product contains software (<https://github.com/kr/pty>) developed  
by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the  
United States and other governments.

It is your responsibility to ensure that your use and/or transfer does not  
violate applicable laws.

For more information, please see <https://www.bis.doc.gov>

See also <https://www.apache.org/dev/crypto.html> and/or seek legal counsel.

# People who have agreed to one of the CLAs and can contribute patches.

# The AUTHORS file lists the copyright holders; this file

# lists people. For example, Google employees are listed here

# but not in AUTHORS, because Google holds the copyright.

#

# <https://developers.google.com/open-source/cla/individual>

# <https://developers.google.com/open-source/cla/corporate>

#

# Names should be added to this file as:

# Name <email address>

# Keep the list alphabetically sorted.

Andrew Gerrand <[adg@golang.org](mailto:adg@golang.org)>

Brad Fitzpatrick <bradfitz@golang.org>  
Burcu Dogan <jbd@google.com>  
Dave Day <djd@golang.org>  
David Symonds <dsymonds@golang.org>  
Glenn Lewis <gmlewis@google.com>  
Johan Euphrosine <proppy@google.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Michael McGreevy <mcgreevy@golang.org>  
Pter Szilgyi <peterke@gmail.com>  
Tyler Treat <ttreat31@gmail.com>

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]"



replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2014 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer

in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Copyright (c) 2012 fsnotify Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Paul Borman <borman@google.com>

Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013 Ben Johnson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in

the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this



License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2013 Matt T. Proud

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Copyright (c) 2012 Alex Ogier. All rights reserved.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Open Source Initiative OSI - The MIT License (MIT):Licensing

The MIT License (MIT)

Copyright (c) 2013 Ralph Caraveo (deckarep@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2012-2015 Ugorji Nwoke.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2015 Rackspace. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above

copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Dario Casta. All rights reserved.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2016 David Calavera

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical



transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Copyright 2015-2016 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2015, Docker Inc.

Copyright (c) 2014-2015 Prime Directive, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Prime Directive, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR



A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

David Williamson <david.williamson@docker.com> (github: davidwilliamson)

Aaron Lehmann <aaron.lehmann@docker.com> (github: aaronlehmann)

Lewis Marshall <lewis@flynn.io> (github: lmars)

Jonathan Rudenberg <jonathan@flynn.io> (github: titanous)

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a

copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,



defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright 2012 SocialCode

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Mozilla Public License, version 2.0

## 1. Definitions

### 1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

### 1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

### 1.3. "Contribution"

means Covered Software of a particular Contributor.

### 1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

### 1.5. "Incompatible With Secondary Licenses"

means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

### 1.6. "Executable Form"

means any form of the work other than Source Code Form.

### 1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

### 1.8. "License"

means this document.

#### 1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

#### 1.10. "Modifications"

means any of the following:

- a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or
- b. any new file in Source Code Form that contains any Covered Software.

#### 1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

#### 1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

#### 1.13. "Source Code Form"

means the form of the work preferred for making modifications.

#### 1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants and Conditions

## 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- a. for any code that a Contributor has removed from Covered Software; or
- b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if

permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

## 3. Responsibilities

### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

## 4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Termination

5.1. The rights granted under this License will terminate automatically if You

fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

## 6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

## 7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability

shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

## 8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).



10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

#### Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

#### Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.  
Copyright (c) 2012, 2013 Ugorji Nwoke.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES

(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# Proprietary License

This license is temporary while a more official one is drafted. However, this should make it clear:

\* The text contents of this website are MPL 2.0 licensed.

\* The design contents of this website are proprietary and may not be reproduced or reused in any way other than to run the Serf website locally. The license for the design is owned solely by HashiCorp, Inc.

# Proprietary License

This license is temporary while a more official one is drafted. However, this should make it clear:

\* The text contents of this website are MPL 2.0 licensed.

\* The design contents of this website are proprietary and may not be reproduced or reused in any way other than to run the Consul website locally. The license for the design is owned solely by HashiCorp, Inc.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at  
SoundCloud Ltd. (<http://soundcloud.com/>).  
Copyright (c) 2015 Vincent Batts, Raleigh, NC, USA

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013 Miek Gieben. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Miek Gieben nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2009 The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.

Extensions of the original work are copyright (c) 2011 Miek Gieben

Copyright 2011 Miek Gieben. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.

Copyright 2014 CloudFlare. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.

Alex A. Skinner  
Andrew Tunnell-Jones  
Ask Bjrñ Hansen  
Dave Cheney  
Dusty Wilson  
Marek Majkowski  
Peter van Dijk  
Omri Bahumi  
Alex Sergeev  
Extensions of the original work are copyright (c) 2011 Miek Gieben

As this is fork of the official Go code the same license applies:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2015, Dave Cheney <dave@cheney.net>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.



\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Extensions for Protocol Buffers to create more go like structures.

Copyright (c) 2013, Vastech SA (PTY) LTD. All rights reserved.  
<http://github.com/gogo/protobuf/gogoproto>

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.  
<https://github.com/golang/protobuf>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2014 Philip Hofer

Portions Copyright (c) 2009 The Go Authors (license at <http://golang.org>) where indicated

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 The AUTHORS

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014 Kyle Isom <kyle@gokyle.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR

ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2014 CloudFlare Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# This source code was written by the Go contributors.

# The master list of contributors is in the main Go distribution,

# visible at <http://tip.golang.org/CONTRIBUTORS>.

Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are

met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it

in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not

compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the



integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS

TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 5.12 docker-py 1.9.0 :1

### 5.12.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 5.13 dockerspawner 0.5.0 :1

## 5.13.1 Available under license :

From RPM File Metadata:BSD

# 5.14 docopt 0.6.2

## 5.14.1 Available under license :

Copyright (c) 2012 Vladimir Keleshev, <vladimir@keleshev.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 5.15 entrypoints 0.2.2

## 5.15.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Thomas Kluyver

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,



FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.16 escapism 0.0.2 :1

### 5.16.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015, Min Ragan-Kelley

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.17 hdfs 2.0.9 :1

### 5.17.1 Available under license :

Copyright (c) 2013, Matthieu Monsch.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.18 ipykernel 4.3.1 :1

### 5.18.1 Available under license :

From RPM File Metadata:BSD

## 5.19 ipython 5.0.0

### 5.19.1 Available under license :

```
{
  "cells": [
    {
      "cell_type": "code",
      "execution_count": 1,
      "metadata": {
        "collapsed": false
      },
      "outputs": [
        {
          "name": "stdout",
          "output_type": "stream",
          "text": [
            "Using matplotlib backend: MacOSX\n"
          ]
        },
        {
          "data": {
            "text/plain": [
              "[<matplotlib.lines.Line2D at 0x10ce05350>]"
            ]
          },
          "execution_count": 1,
          "metadata": {},
          "output_type": "execute_result"
        }
      ],
      "source": [
        "# Should pop up a GUI window\n",
        "%matplotlib\n",

```



"2xrjXFxREPkyN2fEkiRjkiRjmkfG0xkeeaqDhw+3M5YOKMqJcfO6Wt5/eQXRGXLP4JsxYkmSJEmS\n",  
"JM0TT7b1s6Opmd7RgB498Xl3LahjvKC7JcXvT0jliRjkiRj0hXmZzOA/tb+eWLJwGoL81la0Oc\n",  
"VXXFIS87c0YsSZIkSZKkOSoTBDz6fBdfPdBK/2ia7FiET69cxCdWLiInFg173lKxYknSOBjuuuVc\n",  
"niBpDvK1RdJ08LVFmr9ePTnMjqYUzxfBGBVbTHbGuupK80Ledm5MWJj0n44Ac/GPYESXOQry2S\n",  
"poOvLdL8Mzye5uHD7Xz/qQ7SAZTnZ3H7xjreeVE5kR18cPvbMWJjkiRjkiTNEXuO9XLPnhQdA+NE\n",  
"gA9esZDP62hKhF2J6DZ/08gSZIkSZI0z3UMjHHvnmajvUCcHFFPnc1xnm8qjDkZVPHiCvJkiRj\n",  
"kjRLpTMBP3zmBA893sbIRIb87Cg3ranhw8sqiUVn76WDb8aIJUmSJEmSNAs92zHI9l0pXjk5DMDm\n",  
"C8q4Y1MdlYU5IS+bHkYsSZIkSZKkWaR/dIKvH2jpp891EgCLinK4s6GeDYtLw542rYxYkiRjkiRj\n",  
"s0AQBpzy93cv7eFnpEJYhG4fsUiblvTV5WNOx5086IJUmSJEmSNMM1946wsynF4dYBAJYvKmTb\n",  
"5jgXIOeHvOz8MWJjkiRjkiTNUGMTGb5z5DjPXXk8UxASW6MWzfU8d5LFxCNzK2D29+OEUuSJEmS\n",  
"JGkGOTsX86mZlr6RgF432UL+ML6Okrz5mfOmZ//1JkSZIkSTPUyaFx7t/Xwq9f7gZgSVkeWxvj\n",  
"rKgpCnlZuIxYkiRjkiRJM0A6E/Cz5zp58GAbg2NpcmMRblhdzceXV5Edm/sHt78d5YkSZIkSVLI\n",  
"XuocYntTiudPDAGwrr6EOxvrqSnODXnZzGHEkiRjkiRjCsnQWJqHDrXxo2dOkAmgoiCbL22qZ/MF\n",  
"pUTm2cHtb8eIJUmSJEmSdJ4FQUdT718eU8znUPjRCPw0SruXFNDYU5sbDnzUhGLEmSJEmSpPO\n",  
"vX+Ue3Y3sy/VB8DSygK2Nca5dGfByMtmNiOWJEmSJEnSeTCRCfj+Ux3806E2RtMBBdlRb15Xywu\n",  
"X0gs6qWDb8eIJUmSJEmSNM2ebh9ge1OKY90jALzZojJu21hPRUF2yMtmDyOWJEmSJEnSNOkbc\n",  
"+1v5+QtdANSW5HBnQ5y19SUhL5t9jFiSJEmSJEITLAgCfVniSb6yr4W+0TTZ0QifXLMIT65cRG5W\n",  
"NOx5s5IRS5IkSZikaQod6x5mR1MzT7UPAHB1bRfBg+LEy/JCXja7GbEkSZIkSZKmwMhEhm8dbf5\n",  
"5HHSAZTmZXHbhjrec0k5kYgHt0+WEUuSJEmSJGmS9qd6uXt3M+39YwB84PIKb15XS3Gu6WWq+L+k\n",  
"JEmSJEnSOeochOPevS387tUeAC4sz+OuzYtZtqg5GVzjFLkiRjkiTpLKUzAT8+eoJ/fLyNofEM\n",  
"eVIRblxdzUeWV5EV9dLB6WDEkiRjkiRjOgvPnxhk+64UL3UNA9CwpJQvbaqngign5GVzmxFLkiRj\n",  
"kiTpDAyOpfn6wVZ+crSTAKgszObOhjiblpSGPW1eMGJjkiRjkiT9CUEQ8NtXerhvbzMnhyeIRuD6\n",  
"5VX81epq8rNjYc+bN4xYkiRjkiRjB6Gld5S7d6d4vKUfgGVVhWxrjHNRX7Iy+Yf15YkSZIkSdIb\n",  
"jKUzfo/JDr79RDvj6YDi3Bi3rKvIL5dWEI14cHsYjFiSJEmSJEI/4InWfnY0pWjuHQXgmksXcOv6\n",  
"Wsrzs0NeNr8ZsSRjkiRjkoDu4XEe2NfCYy91A1Bfmsu2xjhX1xaHvExgxJkSZIkSfNcJg4+fNd\n",  
"fO1AK/2jabJET5zdTWFVXkxKJhz9NpRixJkiRjkiRjvvdI1zI6mFEc7BgFYU1fMnQ1x6kPzQ16m\n",  
"NzJiSZIkSZKkeWd4PM03D7Xzg6c7yASwID+LOzbV8+cXlhHx4PYZyYglSZIkSZLmld3HerhndzMn\n",  
"BseJAB9etDPra2lMCcW9jT9CUYsSZIkSZI0L3QMjHHPnmb2HOsF4JKKfP5682IuqywIeZnOhBFL\n",  
"kiRjkiTNaROZgB8+3cFDh9oZnchQkB3lpjU1fGhZJbGolw7OFkYsSZIkSZI0Zx09PsiOptd55eQI\n",  
"AH9+YRm3b6xjYWF0yMt0toxYkiRjkiRjzpkbmeDBg6387LkuAKqLc7izoZ718dKQ1+lcGbEkSZIk\n",  
"SdKcEQQBv3qpm/v3tdA7MkFWNELiqio+vaqavKxo2PM0CUYsSZIkSZI0J6R6RtjRIOJI2wAAV1UX\n",  
"sa2xniX1+Sev01QwYkmSJEmSpFldCLDd44c53tHjjOeCSjNy+LW9bW899IFRCIE3D5XGLEkSZIk\n",  
"SdKsdbC5j7t3p2jtGwPg2qUV3LKulpI8k8dc4/+jkiRjkiRp1ukaGue+vc389pUeAJaU53FXy5z\n",  
"1UUhL9N0MWJjkiRjkiRZi50J+OlznTx4oJWh8Qy5sQifXV3Dx66qIivqpYNzmRFLkiRjkiTNCI92\n",  
"DrGjKcXzJ4YA2BAvYUtDPdXFuSEv0/lgxJkSZIkSTPa4Fiahx5v45+PniATwMLCbL60qZ7GJaUe\n",  
"3D6PGLEkSZIkSdKMFAQBv3uth3v3tNA1NE40Ah9fXslNv9dQkBMLe570MyOWJEmSJEmacdr6Rr17\n",  
"dzMHmvsAWFpZwF9vJnNxRUHixQWI5YkSZIkSZoxxtMZHnmqg4cPzOWDijMiXHLulquXvpBzIPb\n",  
"5zUjliRjkiRjmhGebBtgr1OK13tGAHj3xeV8cUMdCwqyQ16mmeCIJUmSJEmSQtU7MsFX97fw6Asn\n",  
"AagryWVbY5xVdcUhl9NMYsSSJEmSJEmhyaQBv3jhJA/sb6F/NE12NMknrl7EJ1csIicrGvY8zTBG\n",  
"LEmSJEmSdN691j3Mjl0pnj4+CMCq2iK2NsapL80LeZlmKiOWJEmSJEk6b0YmMjx8uJ1HnjxOOoCy\n",  
"vCxu31jHuy4uJxLx4Ha9NSOWJEmSJEk6L/a93svdu5s5PjBGBLjuioV8fm0NxbnmCb09/y2RJEmS\n",  
"JEnT6sTgGPFuaWbXa70AXFyRz7bGOFdUFY8tLOJEUuSJEmSJE2LdCbgR8+c4KFDbQyPZ8jLinLT\n",  
"mho+cmUlsaiXDursGLEkSZIkSdKUe65jkO1NKV7uGgZg8wWl3L6xnqqinJCXabYyYkmSJEmSpCkz\n",  
"MDrBgwfb+OmznQTAoqIctjTUs3FxadjTNMsZsSRjkiRj0qQFQcBvXunmvr0tdA9PEIvA9vdV8ZIV\n",  
"1eRnx8KepznAiCVJkiRjkiRjXepXEHU3NHG7tB+DKRYVsa4xz4YL8kJdpLjFiSZIkSZKkczKWzvDd\n",  
"I8f5zpHjjKcDinNjGF9He+7bAHRiAe3a2oZsSRjkiRj0k73NLPzt0pmntHAfiLSxfwhfW1IOvN\n",  
"h7xMc5URS5IkSZIknbHuoXH39fCv73cDcDisjy2NdazoqY45Gwa64xYkiRjkiTpbWWCgJ8918WD\n",  
"B1oZGEuTE4tw6pqr+qiuXNOx5mgeMWJkSZIk6U96uWuI7btSPHdiCIC19cVsbYhTU5Ib8jLN\n"

"J0YsSZIkSZL0pobH0zz0eBs/fOYEmQAqCrK5Y1Mdf3ZBGREPbtd5ZsSSJEmSJEL/JAgCdh/r5Z49\n",  
"zXQOjhONwEeurOSmNTUU5sTCnqd5yogISZIkSZL+f8f7x7hnT4q9r/cBcNnCarZtjnPZwoKQl2m+\n",  
"M2JJkiRjkiQmMgE/eKqDbx5uZ3QiQ0F2IjvX1fKBByxcSi3rpoMJnxJikSZIkaZ57pn2A7U0pXuse\n",  
"AeAdF5Vx+4Z6KgqzQ14m/R9GLEmSJEmS5qm+kQm+dqCVf32+C4Ca4hy2NsZZW18S8jLpPzJiSZIk\n",  
"SZIOzwRBwC9fPMkD+1vpHZkgKxrhkysX8amVi8jNioY9T3pTRixJkiRjkuAR17tH2NGU4sn2AQBW\n",  
"1hSxrTHO4rK8kjdJf5oRS5IkSZKkeWB0IsO3nmgn+WQHE5mA0rwsbttQx3suKScS8eB2zXxGLEmS\n",  
"JEmS5rgDqT7u3p2irX8MgGuXVnDLulP8swCmj38t1WSJEmSpDmq3Cc+/Y289tXewC4sDyPbZvj\n",  
"XLmoKOR10tkzYkmSJEmSNMekMwE/ebaTbxssZWg8Q25WIBtXV/PR5VVkRb10ULOTEUuSJEmSpDnk\n",  
"hRNDbG96nRc7hwhYtLiULQ31VBXlhLxMmhwjliRjkiRjC8DgWJpvHGzlx0c7CYDKwmy2NNTTsKQs\n",  
"7GnSIDBiSZIkSZIOiwVBwL+/2sO9e5sOTRBNAlfX17FZ1dXk58dC3ueNGWMWJikSZIkzVKtfaPc\n",  
"vTvFweZ+AJZVfBktMc5FFfkhL5OmnhFLkiRjKqRZZiyd4ZEnO/jWE+2MpQOKcmLcsr6Wa5dWEI14\n",  
"cLvmJiOWJEmSJEmzyJHWfnY0pUj1jgJwzSX13LqhjvL87JCSdPLiCVJkiRj0izQMzzOV/a38tL\n",  
"JwGoL81la2OcVbXFIS+Tzg8jliRjkiRJM1gmCHj0+S6+eqCV/tE02bEIn766mk+sqCInFg17nnTe\n",  
"GLEkSZIkSZqhXj05zPzdKY52DAKwuq6YrQ1x6kPzQ14mX9GLEmSJEmSZpjh8TQPH27n+091kA5g\n",  
"QX4Wt2+s5x0XIRHx4HbNU0YsSZIkSZJmkD3HerlnT4qOgXEiwleWLeRza2ooyvUtvOY3fwVikiRj\n",  
"kjQDdAyM8eU9zew+1gvAJRX53LU5ztLKwPCXSTODEUuSJEmSpBCIMwE/fOYEDz3exshEhoLsKDet\n",  
"qeFDyyqJRb10UPo9I5YkSZIkSSF5tmOQ7btSvHjyGIA/u7CMOzbWsbAwJ+R10sxjxJikSZIk6Tzr\n",  
"H53gwQOt/Oy5LgJgUVEOWxvrWR8vDXuaNGMZsSRjkiRjOk+CIOBXL3XzlX0t9IXMEItAYsUiPrOq\n",  
"mrysaNjzpBnNiCVJkiRj0nmQ6hlh5+4UT7QOALC8upBtjXEuKM8PeZk0OxixJEmSJEmARmMTGb5z\n",  
"5DjfpXKc8UxASW6ML26o472XLiAS8eB26UwZsSRjkiRjmiaPN/exc3czrX2jALzvsGxcur6Okzjf\n",  
"jktny181kiRjkiRNsZND49y/r4Vfv9wNwJKyPLZtjnNVdVHIy6TZy4glSZIkSdIUSWcFvpcJ18\n",  
"2MbgWJrcWIQbVlfz8eVVZMc8uF2aDCOWJEmSJElT4KXOibY3pXj+xBAA6+MlbGmop6Y4N+R10txg\n",  
"xJikSZIkaRKgxtL846E2/vmZE2QCWFfiQzZc21dN4QakHt0tTyIglSZIkSdI5CIKAXA/1cu+eZjqH\n",  
"xolG4GPLK71xdQ0FObGw50lzhFLkiRjKqSz1NY/yj27m9mf6gNgaWUBdzXGuWRhQcjLpLnLiCVJ\n",  
"kiRj0hkaT2f4/tMdPHyondF0QGFOjJvX1vD+yxcSi3rpoDSdjFiSJEmSJJ2Bp9oH2NGU4lj3CAD\n",  
"uric2zbUsaAgO+R10vxgxJikSZIk6U/oHZngq/tbePSFkwDUluSytaGeNfUIIS+T5hcjliRjkiRj\n",  
"byIIAn7x4kke2NdC32ia7GiET65cxKdWLiInKxr2PGneMwJkiRjKvQGr3UPs6MpxdPtgwBcXVvE\n",  
"1oY48bK8kjdJ85cRS5IkSZKk00YmMnzcDvJJ4+TDqAsL4vbNtbx7ovLiUQ8uF0KkxFLkiRjkiRg\n",  
"f6qXnU3NHB8YIwJcd/ICPr+uhuJc3zpLM4G/EiVJkiRj81rn4Bj37m3hd6/2AHDRgnzu2hznqrC\n",  
"kJdJ+kNGLEmSJEnSvJTOBPz46Am+8Xgbw+MZ8rKi3Limho9eWUks6qWD0kxjxJikSZIkzTvPdQyy\n",  
"oynFS13DADQsKeVLm+qpKsoJeZmkt2LEkiRjkiTNG4Njab5+sJWfHO0kAKqKstmyKc6mJaVhT5P0\n",  
"NoxYkiRjKqQ5LwgCfvNKD/fvbebk8ASxCHz8qipuWfVnfnYs7HmSzoARS5IkSZIOp7X0jrJzd4pD\n",  
"Lf0ALKsq5K7NcS5ckB/yMklnw4glSZIkSZqTxtIzvnfkON8+cpzxdEBxbowvrKvlfUsriEY8uF2a\n",  
"bYxYkiRjKqQ553BrPzubUjT3jgLw3ksXcOv6Wsrys0NeJulcGbEkSZIkSXNG9/A4X9nXwq9e6gYg\n",  
"XprLtsY4K2uLQ14mabKMWJikSZKkWS8TBPzr8118bX8rA2NpcmIRPnN1NYkVVWTHomHPkzQFjFiS\n",  
"JEmSpFnt5a4hdjSleLZjCIC19cXc2RCntiQ35GWSppIRS5IkSZIOKw2Pp/nmoXZ+8HQHMQA WFGRx\n",  
"x8Z6/vzCMiIe3C7NOUYsSZIkSdKss/tYD/fsbubE4DjRCHx4WSWfW1tDYU4s7GmSpokRS5IkSZIO\n",  
"axzvH+PLE5rZ83ovAJcuzOeuxsVcVlkQ8jJ082IJUmSJEmAS8YyAT94uoNvHmpndCJDQXaUz6+t\n",  
"5borFhKLeumgNB8YsSRjkiRJM9ozxwfYsSvFq90jALZjwjJu31hPRWF2yMsknU9GLEmSJEnSjNQ3\n",  
"MsHXDrTyr893AVBTnM0dDXHWxUtCXiYpDEYsSZIkSdKMEgQBv3qpm/v3tdA7MkFWNEJiRRWfubqa\n",  
"3Kxo2PMkhcSIJUmSJEmAMV7vGWFnU4ojbQMarKguYltjnMXleSEvkkX2I5YkSZIkKXSjExm+/UQ7\n",  
"33uyg4lMQGLEfI/cUMs1lywgEvHgdklGLEmSJElSya4297GzKUVb/xgA1y6t4JZ1tZTk+ZZV0v/h\n",  
"K4IkSZIkKRRdQ+Pct7eZ377SA8AF5Xnc1RjnyuqikJdJmomMWJikSZKk8yqdCfiXZzv5+sFWhsYz\n",  
"5GZF+ezqaj62vIqsqJcOSnpzRixJkiRj0nnzQucQO3aleKFzCICNi0vYsinOouKckJdJmumMWJik\n",  
"SZKkaTc4luYfH2/jx0dPkAlgYWE2WzbV07Ck1IPbJZ0RI5YkSZIkadoEQcDvXu3hy3ubOTk0QTQC\n",  
"H19eyY1rasjPjoU9T9IsYsSSJEmSJEL2tr5R7t7dzIHmPgAuryzgrs1xLq4oChMzPnNliCVJkiRj\n",  
"mlLj6QyPPNXBw4fbGUsHFOXEUhldLe+/vIKolw5KOkdGLEmSJEnSIHmyrZ8dTc283jMCwLsvLue2\n",  
"DXWUF2SHvEzSbGfEkiRjkiRNWs/wOA/sb+WXL54EoK4kl22NcVbVFYe8TNJcYcSSJEmSJJ2zTBDw\n"

"6Asn+er+FvpH02THInx65SI+sWIROVnRsOdJmkOMWJIKSZKkc/LqyWF2NqV4+vggAKtqi9nWWE9d\n",  
"aV7IyyTNRUYsSZIkSdJZGR5P863D7TzyVAfpAMrzs7h9Yx3vvKiciAe3S5omRixJkiRJOhnb+3ov\n",  
"9+xu5vjAGBHgg1cs5PNrayjK9e2lpOnlq4wkSZIk6W2dGBzjy7ubaTrWC8DFFflsa4xzRVVhyMsk\n",  
"zRdGLEmSJEnSW0pnAn70zAkeOfTG8HiG/OwoN62p4cPLKolFvXRQ0vljxJkSZIkvalnOwbZvivF\n",  
"KyeHAdh8QRl3bKqjsjAn5GWS5iMjliRjkiTjpyMTvDgwTZ++mwnAbCoKIc7G+rZsLg07GmS5jEj\n",  
"liRjkiQJgCAI+PXL3dy3t4WekQliEbh+xSJufWVNXY07HmS5rlJR6xEInEDc2wFlgMRIEU8HPg\n",  
"75LJZNtZPNfngAff5m53JJPJ+89trSRJkiTjzTT3jrCzKcXh1gEAli8qZNVmOBeU54e8TJJomVTE\n",  
"SiQSWcA3gXFgD/Cr08/5Z8CWU3dJbEomk6+e5VPvAZre4nuHz3GuJEmSJOkNxiYyfPfJ43znieOM\n",  
"ZwKKc2Pcur6Ov7hsAdGIB7dLmjkM+0msDPB3wD8kk8mu338xkUhEgAeAm4H/Btx4ls/7q2Qy+beT\n",  
"3CZJkiRJ+hMOTfsxs6mZlr5RAN532QK+sL6O0jxPnpE080zqlSmZTGaA//ImXw8SicTdnIpYaybz\n",  
"3yFJkiRJmlonh8a5f18Lv365G4DFZXLsa4yzoqYo5GWS9NamM68XnL7t+pP3enN+ZIWSJEmSplgm\n",  
"CPjps508eLCNwbE0ObEIN6yq5vqrqsiOeXC7pJltoiPWJ0/f/vs5PPY/JxKJvwHSNlpgB4EHksnk\n",  
"j6dqnCRJkiTNJy93DbF9V4rnTgwBsK6+hDsb6qkpyQ15mSSdmWmJWIEYgNwO3AS2H4WD+0Ffg0c\n",  
"O/3XZcAK4APABxKJxP9KJpN/M8VzJUmsJGnOGhpL89ChNn70zAkyAVQUZPOITfVsvqCUiAe3S5pF\n",  
"pvwVK5FILAN+CxQD1yWTycem4Dk/APyAU9FteTKZfPZMHvFY48FAKtXr57sBEmSJemaVYIgoOly\n",  
"L1/e00zn4DjRCHx4WSU3rqmHMcW9jxJs9ihQ4cAuOaaa85rCZ/Si54TicRq4DecClifnIqABZBM\n",  
"Jn8KPMyp6PbuqXhOSZIkSZqr2vtH+dtfvMJ/f+xVOgfHuWxhATs/vJQ7NtUbsCTNWIN2OWEikXg\n",  
"8F1gHLg2mUz+eqqe+7STp28Lp/h5JUmsJGIOMMgEfp+pDv7pUBuj6YCC7Cg3r6v1A5cvJBb10kFJ\n",  
"s9uURKxEIreV+AcgBXwgmUwenYrnfYNVp2/P6FJCSZIkSZpPnm4fYHtTimPdIwC886IybtYTOVB\n",  
"dsjLJGlqTCpiJRKJXODLwOc5dQ7W9clksuttHvMQsB74wRsPaU8kEn8P/H0ymWx9w9dvBN7FqUj2\n",  
"6GQ2S5IkSdJc0jcywVf3t/LzF069FastyeHOHjhr60tCXiZJU2uyn8T6JKcC1gBwBPi/EonEm93v\n",  
"0WQy+cvTf70YuAyofpP7/SdgWyKR2Ac8c/prK4ANQB9wQzKZHJvkZkmsJema9YI4JcvnuSB/a30\n",  
"jkyQFY3wyZWL+NTKReRmTenxx5I0I0w2Yv3+oupCYNtb3CfGVID65R/8ffAW9/0icC2wDPgEkA+0\n",  
"APcD/zuzTL42yb2SJEmSNOu93j3C9qYUT7UPALCypoitjXEWl+WFvEySps+cPtnvsceCwBWr14d\n",  
"9hRjkiRjmrSRiQzfPtX08qkOjIBpXlZ3LahjvdcUk4kMqff3kmaQQ4dOgTANddcc15feKbspXNK\n",  
"kiRjKqbPgVQfO3ena08/dcLK+y+v4Oa1tZTk+bZO0vzqg50kSZIkzWBdg+Pcu7eZf3+1B4ALy/O4\n",  
"a/Nili2vfr2GAAAgAEIEQVQqDHmZJJ1fRixJkiRjmoHSmYAfhz3BPz7extB4htysKDetruYjy6vI\n",  
"inrpoKT5x4glSZIkSTPMCyeG+H93vc5LXcMabFpSypZN9VQV5YS8TJLCY8SSJEmSpBlicCzNNw62\n",  
"8uOjnQRAZWE2WxrqaVhSFvY0SQqdEUuSJEmSQhYEA99pYf79jZzcnCaASuX17FX62uJj87FvY8\n",  
"SZoRjFiSJEmSFKLWvIHu3p3iYHM/AMuqCtnWGOeiiyQl0nSzGLEkiRjKqQQjKuzJJ/s4NtPtDOW\n",  
"DijOjXHLulr+cmkF0YgHt0vSGxmxJEmSJOk8e6K1nx1NKZp7RwG45pJybt1QR31+dsjLJGnmMmJJ\n",  
"kiRj0nnSPTzOA/tbeezFkwDUl+ayrTHO1bXFIS+TpJnPiCVJkiRj0ywTBPz8+S6+dqCV/tE02bEI\n",  
"n7m6msSKKnJi0bDnSdKsYMSSJEmSpGn0StcwO5pSHO0YBGBNXTF3NsSpK80NeZkkzS5GLEmSJema\n",  
"BsPjab55qJ0fPN1BjoAF+VncvrGed1xURsSD2yXprBmxJEmSJGmK7TnWyz17UnQMjBMBPrxsIZ9b\n",  
"W0thTizsaZIOaxmxJEmSJGmKdAyMcc+eZvYc6wXgkop8/nrzYi6rLah5mSTNfkYsSZIkSZqkiUzA\n",  
"j57u4KFD7YxMzCjJnLTmho+tKySWNRLByVpKhixJEmSJGkSjh4fZEFt67xycgSAP7+wjNs31rGw\n",  
"MCfkZZI0txixJEmSJOkc9I9O8LUDrfzsuS4AqotzuLohnvXx0pCXSDlCZMSSJEmSpLmqBAG/eqmb\n",  
"+/e10DsyQVY0QuKqKj69ppq8rGjY8yRppzJiSZIkSdIZsvWMSKMPxZG2AQCuqi5iW2M9S8rzQ14m\n",  
"SXOfEUuSJEmS3sbYRIbvHDnOd48cZzwTUJlB44sb6njvpQuIRDy4XZLOByOWJEmSJP0JB5v7uHt3\n",  
"M619owD85WUVfGF9LSV5vp2SpPPJV11JkiRjehNdQ+Pcv7eZ37zSA8CS8jzuaoyzvLoo5GWSND8Z\n",  
"sSRJkiTpD6QzAT99rpMHD7QyNJ4hNxbhs6tr+NhVVWRFvXRQksJixJkSZKk017shGJHU4rnTwwB\n",  
"sCFewpaGeqqLc0NeJkkyYkmSJema9wbH0jz0eBv/fPQEmQAWFmTzpzYZ6GpeUenC7JM0QRixJkiRj\n",  
"81YQBPzutr7u3dNC19A40Qh8bHklN66uoSAnFvY8SdIfMGJJkiRjmpfa+ke5Z3cz+1N9ACytLOCu\n",  
"xjiXLCwIeZkk6c0YsSRJkiTNK+PpDI881cG3Drczmg4ozIly7parl1aQcyD2yVpxjJiSZIkSZo3\n",  
"nmofYMeuFMd6RgB418X13LahjgUF2SEvkyS9HSOWJEmSpDmvd2SCr+5v4dEXTgJQV5LL1sZ6VteV\n",  
"hLxMknSmjFiSJEmS5qxMEPCLF07ywP4W+ktTZEcfHLLIj61chE5WdGw50mSzoIRS5IkSdKc9Fr3\n",  
"MDuaUjzdpGjAqtoitjBqS/NC3mZJOlcGLEkSZIkzSkjExkePzOI08eJx1AWV4Wt2+s410XlXOJ\n",  
"eHC7JM1WRixJkiRjC8b+VC87m5o5PjBGBLju8oV8f10Nxbm+9ZGk2c5XckmSJEmz3onBMe7d08Ku\n",

"13oAuGhBPndtjnNFVWHIyyRJU8WIJUmSJGnWSmcC/vnoCf7x8TaGxzPkZUW5aU0NH7mykljUSwcl\n",  
"aS4xYkmSJEmalZ7rGGRHU4qXuoYB2HxBKbdvrKeqKCFkZZKk6WDEkiRJKjSrDIxO8PwDfbzLs50E\n",  
"wKKiHLY01LNxcWnY0yRJ08iIJUmSJGIWCIKA37zSzx17W+geniAWgeuvquIzq6rJz46FPU+SNM2M\n",  
"WJkSZJmVJbeEXbubuZQSz8AVy4qZFtjnAsX5Ie8TJJ0vhixJEmSJM1YY+kM3ztynG8fOc54OqA4\n",  
"N8YX1tfxvssWEI14cLskzSdGLEmSJEkz0uHWfnY2pWjuHQXgLy5dwBfW11KWnx3yMklSGIxYkiRJn",  
"kmaU7qFxrK/hV+91A3A4rI8tjXW6KmOORlkqQwGbEkSZIkzQiZIOBnz3Xx4IFWBsbS5MQi3LCq\n",  
"muuvqiI7Fg17niQpZEYsSZIkSaF7uWuIHU0pnu0YAmBtfTFbG+LUIOSGvEySNFMYsSRJkiSFZng8\n",  
"zTcPtfODpzvIBFBRkM0dm+r4swvKiHhwuyTpDxixJEmSJiW6bUe7tnTTOFgONEIfOTKSm5aU0Nh\n",  
"TizsaZKkGciIJUmSJOm8Ot4/xfp3NLPn9V4ALtYwLbNcS5bWBDyMknSTGbEkiRJKnReTGQCfvB0\n",  
"B9881M7oRIaC7CifX1vLdVcsJBb10kFJ0p9mxJkSZI07Z5pH2B7U4rXukcAeMDFZdy+oZ6KwuyQ\n",  
"10mSZgsljRkqRp0zcywdcOtPKvz3cBUFOcw9bGOGvrS0JeJkmabYxYkiRJKzCEAQ89tJJvrKv\n",  
"ld6RCbKiET6xooPX11NblY07HmSpFnLiCVJkiRpSr3ePcLO3SmOtA0AsLKmiK2NcRaX5YW8TJIO\n",  
"mxmxJEmSJE2J0Ykm33qineSTHUxkAkzsrhtQx3vuaScSMSD2yVJk2PEkiRJKjRpB5v72NmUoq1\n",  
"DIBrl1Zwy7paSvJ8yyFJmhr+jiJkiTpnHUNjnPf3mZ++2oPABeW57Ftc5wrFxFvEySNNcYsSRJ\n",  
"kiSdtXQm4F+e7eTrB1sZGs+QmxXls6ur+djyKrKiXjooSZp6RixJkiRjZ+WFziG273qdFzuHAdi4\n",  
"uIQtm+IsKs4JeZkkaS4zYkmSJEk6I4Njab5xsl2fPHUcTACVhdlsaainYUIZ2NMkSfOAEUuSJEnS\n",  
"nxQEAb97tYcv723m5NAEQhcf1UVn11dTX52LOx5kqR5woglsZIk6S219Y2yc3eKg839AFxRVcC2\n",  
"xjgXVxSevEySNN8YsSRJkiT9B2PpDI882cG3nmhnlB1QlBPjlvW1XLu0gmjEg9slSeefEUuSJEnS\n",  
"H3myrZ/tu1KkekcBeM815XxxfR3lBdkhL5MkzWdGLEmSJEkA9AyP88D+Vn754kkA6ktz2doYZ1Vt\n",  
"ccjLJEkyYkmSJEnzXiYIePT5Lr56oJX+0TTZsQifvrqat6yolicWDXueJEmAEUuSJEmal149OcyO\n",  
"phTPHB8EYHVdMVsb4tSV5oa8TJKkP2bEkiRJKuah4fE0Dx9u5/tPdZAOoDw/i9s31vPOi8qIeHC7\n",  
"JGkGmMJJkiRj88yeY73csydFx8A4EeBDyxbyuTU1FOX69kCSNHP5u5QkSZI0T3QMjHHvnmajvUC\n",  
"cElFPndtjrO0sjDkZzIkVt0jliRJKjThpTMBP3zmBA893sbIRIb87CifW1PDh5ZVEot66aAkaXYw\n",  
"YkmSJEIz2LMdg2zfleKVk8MAbl6gjC9tqmNhYU7IyyRJOjtGLEmSJGkO6h+d4OsH2vjpc50EwKKi\n",  
"HO5sqGfd4tKwp0mSdE6MWJkSdlcEgQB//ZyN/fvbaFnZIJYBBIrFvGZVdXkZUXDnidJ0jkzYkmS\n",  
"JElzRHPvCDubUhxuHQBgeXUhx2xjXFCeH/IySZImz4glSZIkzXJjExm+c+Q43z1ynPFMQElujF3\n",  
"1PEXly4gEvHgdknS3GDEkiRJKmaxx5v72Lm7mda+UQDed9kCvrc+jtI8/6gvSZpb/J1NkiRjmoVO\n",  
"Do1z/74Wfv1yNwBLyvLYtjnOVdVFIS+TJG16GLEkSZKkWSSdCfjZc508eLCNwbE0ubEIN6yu5uPL\n",  
"q8iOeXC7JGnuMmJJkiRJs8RLnUNsb0rx/IkhanbHS9jSUE9NcW7IyyRjmn5GLEmSJGmGGxpL89Ch\n",  
"Nn70zAkyAVQUZPOITfVsvqDUg9slSfOGEUuSJEmaoYIgoOm1Xr68p5nOoXGIEfjo8kpuW11DQU4s\n",  
"7HmSJJ1XRixJkiRpBmrvH+We3c3sS/UBsLSyglSsa41yysCDkZZIkhcOIJUmSJM0gE5mA7z/VwT8d\n",  
"amM0HVcYE+PmtTW8//KFxKJeOihJmr+MWJkSdIM8XT7ANubUhzrHgHgXRExc9uGOhYUZIE8TJKk\n",  
"8BmxJEmSpJD1jUzw1f2t/PyFLgBqS3LZ2IDPmvqSkJdJkRzGLEkSZKkkARBwC9fPMIX9rXQN5om\n",  
"OxrhkysX8amVi8jJioY9T5KkGcWIJUmSJIXgWPcwO5qaeap9AICra4vY2hAnXpYX8jJkmYmI5Yk\n",  
"SZJ0Ho1MZPjW4XaStx4nHUBZXha3bazj3ReXE414cLskSW/FiCVJkiSdJ/tTvdy9u5n2/jEAPnB5\n",  
"BTevq6U41z+WS5L0dvzdUpIkSZpnmYNj3Lu3hd+92gPARQvy2Na4mGWLcckNeJknS7GHEkiRJKzJ\n",  
"OhPw46Mn+MbjbQyPZ8jLinLjmho+emUlsaiXDkqSdDaMWJkSdl0eP7EINt3pXipaxiAhiWlfGIT\n",  
"PvVFOSEvkyRpdjJiSZIkSVNocCzN1w+28pOjnQRAVVE2WzbF2bSkNOxpkiTNakYsSZikaQoEQcBv\n",  
"X+nhvr3NnByeIBqB65dX8Verq8nPjoU9T5KkWc+IJUmSJE1SS+8od+9O8XhLPwDLqgq5a3OcCxfk\n",  
"h7xMkqS5w4glSZIknaOxdIbvPdnBt59oZzwdUJwb4wvranf0gqiEQ9ulyRpKhmxJEmSpHPwRGs\n",  
"O5pSNPeOAvDeSxdw6/payvKzQ14mSdLcZMSSJEmSzkL38DgP7GvhsZe6AagvzeWuxjgra4tDXiZJ\n",  
"0txmxJIKSZLOQCYI+PnzXXztQCv9o2lyYhE+c3U116+oIicWDXueJElznhFLkiRjehuvdA2zoynF\n",  
"OY5BANbWF3NnQ5zaktyQl0mSNH8YsSRJkqS3MDye5puH2vnB0x1kAlhQkMUdG+v58wvLiHhwuyRJ\n",  
"55URS5IkSXoTu4/1cM/uzk4MjhmBPrsks+traEwJxb2NemS5iUjliRJKvQHOgbGuGdPM3uO9QJw\n",  
"SUU+f715MZdVfO8TJKk+c2IJUmSJAETmYAfPt3BQ4faGZ3IUIAd5XNra/ngFQuJRb10UJKkSbm\n",  
"JEmSNO89c3yAhbtSvNo9AsA7Lizj9o31VBRmh7xMkiT9nhFLkiRj81bfyAQPPhmZlZ891AVBTnM\n",  
"DXHWxUtCXiZjkt7IiCVJkqR5JwgCfvVSN/fva6F3ZIKsaIteii+c3U1uVnRsOdJkqQ3YcSSJEnS\n",  
"vJLqGWFHU4ojbQMArKguYltjnMXleSEvkyRjF4oRS5IkSfPC6ESG7xw5zveOHGc8E1Cal8Wt625\n",

"76ULiEQ8uF2SpJnOiCVJkqQ572BzH3fvTtHaNwbAtUstruGVdLSV5/nFYkqTZwt+1JUmsNGd1DY1z\n",  
"395mfvtKDwAXlOdxV2OcK6uLQ14mSZLOhFLkiRjC046E/DT5zp58EARQ+MZcmMRPrU6ho9dVUVW\n",  
"1EsHJUumajYxYkiRjmlNe7BxiR1OK508MAbAhXsKWhnqqi3NDXiZJkibDiCVJkqQ5YXAszUOPt/HP\n",  
"R0+QCWBhYTzBnXTsKTUg9slSZoDjFiSJEmalYIg4Hev9XDvnha6hsaJRuDjyyu5cU0N+dmxsOd\n",  
"kqQpYsSSJEnSrNXWN8rdu5s50NwHwOWVbDy1Oc7FFQUhL5MkSVPNiCVJkqRZZzyd4ZGnOnj4cDjt\n",  
"6YDCnBi3rKvl/ZdXEPXSQUmS5iQjliRjKmaVJ9sG2NGU4vWeEQDefXE5t22oo7wgO+RlkiRpOhmx\n",  
"JEmSNCv0jkzwwL4WfvHiSQDqSnLZ1hnnVV1xyMskSdL5YMSSJEnSjYJAn7xwkke2N9C/2ia7FiE\n",  
"T69cxCdWLCInKxr2PEmSdJ4YsSRJkRjvdY9zI5dKZ4+PgjAqtpitjXWU1eaF/IySZJ0vhmxJEmS\n",  
"NOOMTGR4+HA7jzx5nHQA5flZ3L6xjndeVE7Eg9slSZqXjFiSJEmUfa93svdu5s5PjBGBpjgFQv5\n",  
"/NoainL9o6skSfoZfxKQJEnSjHBicIx79zSz67VeAC6uyGdbY5wrqgpDXiZJkmYCI5YkSZJClc4E\n",  
"/OiZEzx0qI3h8Qz52VFuWIPDh5dVEot66aAkSTrFiCVJkqTQPNcxyPamFC93DQOw+YJS7thUT2Vh\n",  
"TsjLJEnSTGPEkiRj0nk3MDrBrgwfb+OmznQTAoqIctjTUS3Hx/8fefQbJeRf4vv929+Q8Gs1oUksO\n",  
"cpJlyZIVZ8SSDCyYXRbwAlbFgMHYRpa059ate+vui3vq1K06de+OrVXkiMOGLPEBpPTYhZYNMqW\n",  
"LMm2nIN6kkaTc+ju576wdg+wDgqjeSZ8P1WulmZ6un4vZE33V/38pzTsaZikaYyYkmSJGnaBEHA\n",  
"71/u5b69rfSOpohF4MYVi/j0tYvIz46FPU+SJM1gRixJkiRNi9b+MXy0t3C4bRCA5YsK2bopzkXl\n",  
"+SEvkyRJs4ERS5IkSRfURDrDd4+c5DtHTjKZDijOjXHrjref/kCohEPbpckSWfGiCVJkqQL5nDr\n",  
"IDt3J2npHwfg/Zct4Nb1dZTm+TRUkiSdHZ89SJIkacr1jkxy/75W/vWIXgAWl+WxtbGeFTXFIS+T\n",  
"JEmzlrFLkiRjUyYTBpzi2W4eOtDG8ESanFiEz6yq5sZrqiORcOeJ0mSZjEjliRjKqbES90jbN+V\n",  
"5NITiwCsrS/hzoZ6akpyQ14mSZLmAiOWJEmSzsvoZJpHn2jnh0+flhNARUE2d2ys4x0XIRHx4HZ\n",  
"kjRFjFiSJek6J0EQsPu1fu7e00LX8CTRCHz06kpuvq6GwpXy2PMkSdIcY8SSJEnSWTs5OMHde5Ls\n",  
"PTEawOULC9i2Kc5lCwtCXiZJkuYqI5YkSZLOWCoT8NixTr5xulPxVlaC7Ci3rK3lhisXEot66aAk\n",  
"SbpwjFiSJek6I093DLG9OcmrvWMAvOuSMm7bUE9FQXbIyyRJ0nxgxJkSdJbGhhL8dCBNn75XDca\n",  
"tSU53NkQZ019ScjLJEnSfGLEkiRj0hsKgoDfvNDDA/vb6B9LkRWN8MmVi/jUykXkZkXDnidJkuYZ\n",  
"I5YkSZL+kxO9Y+xoTnK0YwiAITVfBgmMs7gsL+RlkiRpvjJiSZIk6T+MpzJ868kOEk7SWUCSvOy\n",  
"uG19He9dWk4k4sHtkiQpPEYsSZIkAXAgOcBdu5O0D04A8KErK7hlTS0leT5lICRj4fMZiSRJ0jzX\n",  
"PTzJfXtb+MMrfQBcXJ7H1k1xrl5UFPIySZKk/8mIJUmSNE+lMwE/Pd7FIwfbGJmMkJsV5ebV1Xx0\n",  
"eRVZUS8dlCRJM4sRS5IkaR56/tQI25tP8ELXKAAb15SyeWM9VUU5IS+TJEl6Y0YsSZKkeWR4Is0j\n",  
"B9v4yTndBEBIYTabG+ppWFIW9jRjkqS3ZMSSJEmab4Ig4N9e6ePevS30jKSIRuDjy6v47Opq8rNj\n",  
"Yc+TJEl6W0YsSZKkOa5tYJy7dic52DIIwLKqQrY2xrmkIj/kZZIkSWfOiCVJkjRHTAqzfp9oJ996\n",  
"soOJdEBxbowvrq3lr6+oIBrx4HZJkjs7GLEkSZLmoCNtg+xoTpLsHwfg+qXl3Lq+jvL87JCXSZIk\n",  
"nRsjliRj0hzSNzrJV/e38fgLPQDUl+aytTHOtbXFIS+TJEk6P0YsSZKkOSATBPz6uW4ePNDG4Hia\n",  
"7FiEm66t5hMrqsiJRcOeJ0mSdN6MWJkSbPcKz2jbN+V5JnOYQCcuqyvmzoY4daW5IS+TJEmOkYs\n",  
"SZKkWWp0Ms03D3fwg2OdpANYkJ/F7RvqeecLZUQ8uF2SJM0x5xWxmpqaPgN8EFgDLAaiQBL4FfDf\n",  
"E4IE+1k+3hLgvwLvByqBXuAPwH9LJBLPnM9WSZKkuWTPa/3cvSdJ59AkEeAjyxyb+TW1FObEwp4m\n",  
"SZJ0QZzzP9E1NTVIARPAJLAHeJrXo9g7gCuBtmBjIpF45Qwfb+npX6kAHgeOAXfXeiSbAN6VSCQO\n",  
"ns3Gxx9/PABYvXr12XyZJEnSjNU5NME9e1rY/Vo/AESr8tm2Kc4VIYUHL5MkSfPFoUOHAlj++uun\n",  
"9a3f5/NOrAzW34F/SiQS3f/+waampgjwAHAL8N+Am8/w8f6J1wPW5kQice+fPN6HgZ8A9/H6O74k\n",  
"SZLmnXQm4IdPn+LRJ9oZS2UoyI7yuetq+NtlcSiXjooSZLmvgvyjKepqela4BBwPJFIXH0G968E\n",  
"2oFkIpG4+A0+/2/AJmBlIpE4dqY7fCeWJEmac453DrN9V5KXe0YB+KuLy7h9Qx0LC3NCXiZJkuaj\n",  
"2fhOrLdScPq2+y3v9T+t4/XztPa9yed383rEagTOOGJJkiTNZoPjKR4+0MYvnu0mAKqLc7izoZ51\n",  
"8dKwp0mSJE27CxWxPnn69t/O8P6XnL7tfJPpt56+/U/v0PkSZprgiDgty/28tV9rfSNpciKRmi6\n",  
"poqbVIWtlxUNe54kSVIopjxiNTU1rQduB3qA7Wf4ZcWnbwfe5PMjP29LzmOaJEnSjJfsG2Pn7iR\n",  
"tg0BsLy6kG2NcZaU54e8TJikKVxTGrGampqWAT8DAuBTiUt1Fk+ROpNPu5ppZlkaU6bSGX4zpGT\n",  
"fPFISSyZASW5Mb68vo73XbaASMSnQpIkSVMWsZqamLYDv+L1d1V9MpFIPH4WXz54+vbN/omx4C/u\n",  
"J0mSNGc80TLAzt0ttA2MA/DXl1fwpXW1lORdqJMfJEmSZp8peWbU1NT0Iec7wCTwwUQi8buzfliX\n",  
"T98ufpPP1/3F/SRJkma9npFJ7t/Xyu9e6gVgSVkeWzfuaa6KORikiRJM895R6ympqYtwD8BSeCG\n",  
"RCLxzDk8zH5evwTxXW/y+U2nb/eew2NLkiTNKOIMwM+f7eJrB9sZnkiTG4vW96tr+NjySrJjHtwu\n",  
"SZL0Rs45YjU1NeUC9wBfAP4A3JhIJLrf5mseBdYBjyUSiX/8948nEolTTU1Nvwi+2NTUdGsikXjg\n",



"T77mBmAjcCyRSDx5rnsLSZJmghe7RtjenOS5U6//3Jr18R12N9RTXZwb8jJkqSZ7XzeifVJXg9Y\n",  
"Q8AR4P9oamp6o/v9OpFI/Ob0rcxDIwPvB3C//wKsB+5ramr6GPDC6fvfwOs/nfC289gqSZIUqpGJ\n",  
"NF8/1M6Pnz5FJoCFBdl8ZWM9jReVenC7JEnSGTifiPXvz7YKga1vcp8AGAB+8ye/D97ojolE4vmm\n",  
"pqY1wH8F3ge8B+gFHgP+r0Qi8dR5bJUKsQPFEATserWfe/e00DUySTQCH1teyc2rayjliYU9T5Ik\n",  
"adaY0//s9/jjwcAq1evDnuKJEmah9oHx7l7dwv7kwMAXFFZwLbGOEsXFrzNV0qSJM1chw4dAuD6\n",  
"66+f1q7kz22WJEMAyPpDD94qpNvHupgPB1QmBPjljU1fOjKhcSic/rfECVJki4YI5YkSdIUOtYx\n",  
"xI7mJK/1jgHw7kvLuW19HQsKskNeJkmSNLSzSRJkqZA/1iKB/e38uvnewCoK8lS2M9q+tKQl4m\n",  
"SZI0NxiJEmSzkMQBPzLCz08sK+Vgfe02dEIn1y5iE+tXEROVjTseZIKSXOGEUuSJOkcvd07yo7m\n",  
"JE91DAOWqraILY1x6kvzQl4mSZI09xixJEmSztJYKsO3DneQOHqSdABLEVnctqGO91xaTiTiwe2S\n",  
"JEKXghFLkiTpLOxP9rOzuYWTQxNEgA9fuZAvrK2hONenVZIkSResZ7YkSZLOQNfwBPfubeWPr/QB\n",  
"cMmCfLZtinNVVWHIyyRJKuYHI5YkSdJbSGcCfvLMKR55op3RyQx5WVE+d10Nf3d1JbGolw5KkiRN\n",  
"FyOWJEnSm3i2c5gdzUle7B4FoHFJKXdsrKeqKcKfZZIKSfOPEUuSJOkvDE+k+drBNn76TBcBUFwU\n",  
"zeaNcTYuKQ17miRJ0rxIxJkSTotCAJ+/3If9+9toWc0RSwCN15TxadXVZOfHQ7niRJ0rxmxJk\n",  
"SQJa+8fZuTvJodZBAK5eVMjWxjgXL8gPeZkkSZLaiCVJkua5iXSG7x05ybePnGQyHVCcG+NL6+r4\n",  
"wOULiEY8uF2SJGmmMGJJkqR563DbIDubk7T0jwPwvssWcOu6Wsrys0NeJkmSpL9kxJkSfNO7+gk\n",  
"X93Xym9f7AUgXprL1sY4K2uLQ14mSZKkN2PEkiRJ80YmCPjlc908tL+NoYk00bElN1IVzY3XVJEd\n",  
"i4Y9T5IkSW/BiCVJkuaFl7pH2NGc5HjnCABr6ovZ0hCnpiQ35GWSJEK6E0YsSZI0p41OpvnGoQ4e\n",  
"e6qTTAALCrL4yoZ63nFxGREPbpcSZ01JfISJGnO2v1aH3fvbuHU8CTRCHxkWSWfX1NDYU4s7GmS\n",  
"JEK6S0YsSZI055wcnOCePS3sOdEPwGUL89nWuJlJKwtCXiZJkqRzZcSSJElzRioT8NhTnXzjUAfj\n",  
"qQwF2VG+sKaWD1+1kFjUSwclSZJmMyOWJEMA54+OcSOXUle6R0D4J2XIH7+noqCrNDXiZJkqSp\n",  
"YMSSJEmz2sBYiocOtPHL57oBqCnO4c6GOGvjJSEvkyRJ0lQyYkmSpFkpCAJ++2Iv9+9rpX8sRVY0\n",  
"widVWHHTtdXkZkXDnidJkqQpZsSSJEmzzom+MXY2JznSPgTAYpoitjTEWVyeF/IySZIKXShGLEmS\n",  
"NGuMpzJ8+8kOvne0k1QmoDQviy+vr+X6pQuIRDy4XZikaS4zYkmSpFnhYMsAO5uTtA9OAPDBKyr4\n",  
"4tpaSvJ8OiNkjQf+KxPkiTNaN0jk9y3t4U/vNwHwEXleWxrxjHN1dVHIyyRjkSdjFiSJGIGSmcC\n",  
"fna8i68dbGNkMkNuVpTPrq7mY8uryIp66aAkSdJ8Y8SSJEKzzvNdI+zYleT5rhEANiwuYfPGOIuK\n",  
"c0JeJkmSpLAYSrJ0owxPJHm60+085NnTpEJoLIwm80N9TQsKQt7miRjkkJmxJkSaELgoA/vtLH\n",  
"PdBIkmoAACASURBVHtb6BIJEY3AjddU8dnV1eRnx8KeJ0mSpBnAiCVJkkLVPjDOXbtbONAYAMBv\n",  
"VQVsbYxzaUVByMskSZI0kxixJELSKCbTgB5/rJNvHu5gIh1QIBPjlrW1fOjKcQIRD26XJEnSznN\n",  
"SZKkaXe0fZAdzS2c6BsD4L1Ly/nyujrKC7JDxiZJkqSZyogISZKmtD/oJA/sb+M3L/QAUF+ay5bG\n",  
"OKtqi0NeJkmSpJnOiCVJki64TBDw6+d7eHB/K4PjabJEW5auYhPrFxETiwa9jxJkiTNAkYsSZJ0\n",  
"Qb3SM8r05iRpnRwGYFvtMVsb66krzQt5mSRJkmYTI5YkSbogRifTfOtwB98/1kk6gPL8L7fUM+7\n",  
"Likj4sHtkiRJOKtGLEmSNOX2nujn7t0tnByaIAL8zVUL+cKaGopyfeohSZKk+cMzSUMSNGVODU9w\n",  
"z+4Wml/rB+DSiny2Nca5sqow5GWSJEMA7YxYkiTpvKUzAT96+hSPHmpndDJdfnaUz11Xw0eWVRKL\n",  
"eumgJEmSzp8RS5IknZfjncNs35Xk5Z5RADZdVMYdG+uoLMwJeZkkSZLmEiOWJEK6J4PjKb52oJ2f\n",  
"P9tFACwqyuHOhrWLy4Ne5okSZLmICOWJEK6K0EQ8LuXerlvbyt9YyliEWhasYhPr6omLysa9jxJ\n",  
"kiTNUUYsSZJ0xlr6x9jZnORw2xAAYxcVsnVTnIvK80NeJkmSpLnOiCVJkt7WRCrDd4+e5DtPnmQy\n",  
"E1CSG+PW9XW877IFRCMe3C5JkqQLz4glSZLe0qHWAXY2t9A6MA7ABY5fwJfW1VGa59MISZIKTR+f\n",  
"fUqSpDfUMzLJ/fta+d1LvQAsKctjS2OcFTVFIS+TJEnSfGTEkiRJfyYTBpz8eBcPH2xneCJNbizC\n",  
"Z1ZX8/HIVWTHPLhdkiRJ4TBiSZKk//BS9wjbdyV59tQIAGvrS7izsZ6a4tyQl0mSJGm+M2JJkiRG\n",  
"Jtl8eqidHz19ikwAFQXZfGVjPZsuKiXiwe2SJEMAAYxYkiTNY0EQ0PxaP/fsaaFreJJoBD66vJKb\n",  
"V9dQmBMLe54kSZL0H4xYkiTNUx2D49y9u4V9yQEARqgsYFtjnKULC0JeJkmSJP1nRixJkuaZVCbg\n",  
"B8c6+edD7YynAwqyo9yytpYbrlxILOql5IkSZqZjFiSJM0jT3UMsb05yWu9YwC865IybtQT0VB\n",  
"dsjLJEmSpLdmxJlkaR4YGEvx4P42fvV8NwC1JTnc2RbNTX1JyMskSZKkM2PEkiRpDguCgN+80MNX\n",  
"97UyMJ4mOxrhkysX8cmVi8jNioY9T5IkSTpjRixJkuaoE71jbG9OcqxcIBra4yY0hAnXpYX8jJJ\n",  
"kiTp7BmxJEMAy8ZSGb59uIPEsU5SmYDSvCxuW1/He5eWE414cLskSZJmJyOWJElzyIHkAdt3J+kY\n",  
"nADghisruGVtLcW5fsuXJEnS7OYzWkmS5oCu4Qnu29vKv73SB8AIC/LY2riYZYsKQ14mSZIKTQ0j\n",  
"liRJs1g6E/CTZ07x9SfaGZnMkJcV5ebV1Xx0eRWxqJcOSpIkae4wYkmSNEs9f2qE/2/XCV7sHgWg\n",  
"YUkpX9IYT1VRTsjLJEmSpKlnXJlkaZYZnkjzyME2fvJMFwFQWZjNnQ1xNi4pDXuaJEmSdMEYsSRJ\n",

"miWCIOAPL/dx394WekZTRCNw4/Iq/n51NfnZsbDnSZIkSReUEUuSpFmgtX+cu3YneaJ1EIBIVYVs\n",  
"bYxzSUV+yMskSZKk6WHEkiRpBptIZ0gc7eRbT3YwmQ4ozo3xpbW1fOCKCqIRD26XJEnS/GHEkiRp\n",  
"hnqybZAdzUla+scBuP6yBdy6rpbY/OyQl0mSJEnTz4glSdIM0zs6yQP723j8hR4A6ktz2doY59ra\n",  
"4pCXSZIkSeExYkmsNENkgoBfPdfNQwfaGBxPxx2L8Olrq2laUUVOLBr2PEmSJCIURixJkmaA17tH\n",  
"2dGc5JnOYQCuqyvmzoY4daW5IS+TJEmSZgYjliRJRqdTPONQx089lQnmQAW5Gdxx8Z6/uriMiE\n",  
"3C5JkiT9ByOWJEkh2fNaP3fvSdI5NEkE+MiyhXx+TS2FObGwp0mSJekzjhFLkqRp1jk0wd17Wtjz\n",  
"Wj8ASyvy+YdNi7m8siDkZZikSdLMZcSSJGmapDIBP3qqk0cPdTCWylCQHeXza2r5m6sWEot66aAk\n",  
"SZL0VoxYkiRN2dODrOj+QQv94wB8FcXl3HHhnoqCrNDXiZJkiTNDkYsSZlUoMHxFA8daOMXz3YD\n",  
"UF2cw50N9ayL14a8TJikSZpdjFiSJF0AQRDw2xd7uX9fK/1jKbKiEZquqeKmVdXkZUXDnidJkiTN\n",  
"OkYsSZKmwLJvJB3NSY60DwFwTXURWxvrWVKeH/IySZikafYyYkmsNEXGUxm+c+Qk3ztykslMQGle\n",  
"Freuq+V9ly0gEvHgdkmSJOI8GLEkSZoCB1sGuGt3kraBCQA+eEUFX1xbS0me32oLSZKkqeAza0mS\n",  
"zkP3yCT3723h9y/3AbCkPI9tjXGwVxeFvEySJemaW4xYkiSdg3Qm4OfPdvHwgTZGJjPkxiJ8dnUN\n",  
"H7umiqyolw5KkiRJU82IJUnSWXqha4QdzUmeOzUCwPp4CZsb6qkuzg15mSRJkjR3GbEkSTpDwxNp\n",  
"Hn2inR8/c4pMAAsLs/nKxnoal5R6cLskSZJ0gRmxJEl6G0EQ8MdX+7h3TyvdI5NEI/Dx5ZV8dnUN\n",  
"BTmxsOdJkiRJ84IRS5Kkt9A+OM7du1vYnxwA4IrKA5hU5xLKwpCXiZJkiTNL0YsSZLewGQ6w/eP\n",  
"dfKtwx2MpwMKc2J8cW0tH7yigpgHt0uSJEnTzoglSdJfONo+xi7mJcF6xgB4z6XlH9HQsKskNe\n",  
"JkmSJM1fRixJkk7rH0vx4P5Wfv18DwB1JblsbYyzqq445GWSJEmSjFiSpHkvEwT8y/M9PLC/lcHx\n",  
"NNnRCJ+6dhGfXLGInKxo2PMkSZIkYcSSJM1zr/aOsqM5yVMdwwCsqi1iS2Oc+tK8kjdJkiRJ+ING\n",  
"LEnSvDSWYvDNwx18/+hJ0gGU5WVx+4Y63n1pOZGIB7dLkiRJM40RS5I07+w70c9du1s4OTRBBPjw\n",  
"VQv5wpoainP9tihJkiTNVD5blyTNG6eGJ7h3Twu7Xu0H4NKKfLY2xrmqjDkZZikSZLejhFLkjTn\n",  
"pTMBP37mFF9/op3RyQx5WVE+d10Nf3d1JbGolw5KkiRJs4ERS5I0pz3bOcyO5iQvdo8CsOmiUm7f\n",  
"UE9VUU7IyyRJkiSdDSOWJGI0GhpP8bWD7fzseBcBsKgoh80N9WxYXBr2NEmSJEnnwIglSZpTgiDg\n",  
"9y/3ct/eVnpHU8QicOM1VXx6VTX52bGw50mSJek6R0YsSdKc0do/xs7dLRxqHQTg6kWFbG2Mc/GC\n",  
"/JCSZIKSTpRixJ0qW3kc7wvSMn+faRk0ymA4pzY3xpXR0fuHwB0YgHt0uSJEIzgrFLkjSrHW4d\n",  
"ZOfuJC394wC8/7IFfGldLWX52SEvkyRjkjSvjFiSpFmpd2SS+/e18q8v9QKwuCyPrY31rKgpDnmZ\n",  
"JEmSpAvBiCVJmlUyQcAvnu3m4QntDE2kyYIF+Myqam68porsWDTseZikSZIuECOWJGnWeKI7hB3N\n",  
"SY53jgCwpr6YLQ1xakpyQ14mSZIk6UIzYkmsSZrRyTTFONTBY091kgmgoiCbOzbW8Y6Lyoh4cLsk\n",  
"SZI0LxixJEkzVhAE7H6tn7v3tNA1PEk0An93dSWfu66GwpxY2PMkSZIkTSMjliRpRjo5OMHde5Ls\n",  
"PTEawOULC9i6Kc7lCwtCXiZJkiQpDEYsSdKMksoEPHask28c7mA8laEgO8ota2u54cqFxEoIhJ\n",  
"kiTNV0YsSdKM8XTHENubk7zaOwBAOy8p4/b19VQUZoe8TJikSVLYjFiSpNANjKV46EAbv3yuG4Ca\n",  
"4hy2NMZZU18S8jJkiRJM4URS5IumiAI+M0LPTyww43+srRZ0QifWFHFTddWk5sVDXueJEmSpBnE\n",  
"iCVJCsWJ3jF2NCc52jEEwMqaIrY0xlclhfyMkmSJekzkRFLkjStxlmZvvVkB4mjnaQyAaV5Wdy2\n",  
"vo73Li0nEvHgdkmSJElvzIglSZo2B1sG2NmcpH1wAoAPXIHBf9fWUpLntyNjkiRjB81XDZKkC657\n",  
"eJL79rbwh1f6ALi4PI+tm+Jcvago5GWSJEmSZgsljTpgklnAn56vItHDrYxMpkhNyyKzaur+ejy\n",  
"KrKiXjooSZIk6cwZsSRJF8TzXSNs33WCF7pGAdi4uJTNDfVUFeweEvEySJEnSbGTEkiRNqeGJNI8c\n",  
"bOenx0+RCaCyMJvNdfU0LCKLe5okSZKkWcyIJUmaEkEQ8MdX+rhnbsw9IymiEbjxmio+u7qa/OxY\n",  
"2PMkSZIkXJGLEnSeWsbGOeu3UkOtgwCcFVVAVsb41xaURDyMkmSJElzhRFLknTOJtIzvn+0k289\n",  
"2cFEOqAoJ8YX19XywSsqiEY8uF2SJEnS1DFiSZLOydh2QbbvSpLsHwfg+qXl3Lq+JvL87JCSZIk\n",  
"SZqLjFiSpLPSNzrJA/vb+M0LPQDUl+aypTHOqtrikJdJkiRjmsuMWJkM5IJA79XDcPHmhjcDxN\n",  
"dizCTddW84kVVeTEomHPkyRjkjTHGbeKSW/rlZ5Rtu9K8kznMACr64rZ0hCnrjQ35GWSJEmS5gsj\n",  
"liTpTY1Opvnm4Q5+cKyTdAAL8rO4bUM977qkjIgHt0uSJemaRkYsSdIb2vNaP3fvSdI5NEkE+Ntl\n",  
"C/n8dTUU5fqtQ5IkSdL085WIJOnPdA5NcO+ePpf6wdgaUU+2zbFuaKyMORlkiRjkuYzI5YkCYB0\n",  
"JuCHT5/i0SfaGUtlyM+O8vnrvajbZZXEol46KEmSJClcRixJEsc7h9m+K8nLpAMAbLqojK9srGNh\n",  
"YU7IyyRJkiTpdUYsSZrHBsdTPHygV88200ALCrKYUtjPevipWFPkyRjkqQ/Y8SSpHkoCAL+9aVe\n",  
"7t/bSt9YilEmlYs4tOrqsnLioY9T5IkSZL+EyOWJM0zyb4xdu5O8mTbEADLqvwZ2hjnvl8kjdJ\n",  
"kiRJ0pszYknSPDGRyvCdIyf57pGTTGYCSnJ3Lq+jvdfToBlxIPbJUmSJM1sRixJmgeeaBlg5+4W\n",  
"2gbGAfjA5Qv40ro6SvP8NiBkiRpdvDViyTNYT0jk9y/r5XfvdQLwJKyPLZuinNNdVHIyyRjkiTp\n",  
"7BixJGkOSmcCfvFsFw8fbGd4Ik1uLMJnVlfz8eVvZMc8uF2SJEnS7GPEkqQ55sWuEbY3J3nu1AgA\n",

"6+IlbG6op6Y4N+RlkiRjknTujFiSNEeMTKT5+qF2fvz0KTIBVBRk85WN9WY6qNSD2yVJkiTNekYs\n",  
"SZrlgiCg+dV+7tnTQtftJNElFHR5JZ9bXUNBTizseZikSZIOJYxYkjSLdQyOc/fuFvYlBwC4orKA\n",  
"bY1xli4sCHmZJEmSJE0tI5YkzUKpTMAPjnXyz4faGU8HFObEuGVNDR+6ciGxqJcOSpIkSZp7jFiS\n",  
"NMsc6xhiR3OS13rHAHj3peXctr6OBQXZIS+TJEmSpAvHiCVJs0T/WIoH97fy6+d7AKgtyWVLQz3X\n",  
"1ZeEvEySJEmSLjwjlITNcEEQ8JsXevjqvlyGxtNkRyN8cuUiPrVyETIZ0bDnSZIkSdK0MGGJ0gz2\n",  
"Wu8oO5pbONYxBMC1tUVsaYgTL8sLeZkkSZIKTS8jliTNQGOOpDN863EHi6EnSAZTIZXHbhjrec2k5\n",  
"kYgHt0uSJEmaf4xYkjTD7E/2s7O5hZNDewDccGUFt6ytpTjXv7IISZIkzV++IpKkGaJreIJ797by\n",  
"x1f6ALhkQR5bGxebFFhyMskSZIkKXxGLEkKWTOT8JNnTvHIE+2MTmbly4py83U1fPTqSmJRLx2U\n",  
"JEmSJDBiSVKonjs1zPZdSV7sHgWgYUkpX9IYT1VVRTsjLJEmSJGlmMWJJUgiGJ9J87WAbP32miwCo\n",  
"Kspm88Y4G5eUhj1NkiRjkmYkI5YkTaMgCPj9y33cv7eFntEU0QjcuLyKv19dTX52LOx5kiRjKjRj\n",  
"GbEkaZq09o9z1+4kT7QOArCsqpBtm+JcvCA/5GWSJEmSNPMZsSTpAptIZ/je0U6+/WQHk+mA4twY\n",  
"X1pbyueuqCAa8eB2SZIKSToTUxqmpqargCeBr6dSCQ+ew5f/3ng4be52x2JROL+c5gnSdPucNsg\n",  
"O5uTtPSPA/C+yxZw67payvKzQ14mSZIkSbPLeUespqamS4H/BagB3g9EgeA8H3YP0Pwmnzt8no8t\n",  
"SRdc7+gkX93Xym9f7AWgVjSXbY1xVtYWh7xMkiRjKmanqXgnVhy4g/MPV3/qt4IE4v+cwseTpGmR\n",  
"CQJ++Vw3D+1vY2giTU4swqevrebGFVXkxKJh5MkSZKkWeu8I1Yikfg9r7/7iqampncCvzvf5Sk\n",  
"2ejl7IF2NCd5pnMYgDX1xdzZEKE2JDfkZZIkSZIO+031we5TdUKxJx1LmjVGJ9N841AHjz3VSSaA\n",  
"BQVZ3LGhnr+6uIyIB7dLkiRJ0pSYqT+d8H9ramr6RyANdAMHgQcSicRPwp0ISX9u92t93L27hVPD\n",  
"k0SAjyyr5PNraijMiYU9TZIKSZLmlJkWsfp5/XLE107/ugxYAdwA3NDU1PR/JxKJfwxnyQBcHJw\n",  
"gnv2tLDnRD8ASyvy+YdNi7m8siDkZZIkSZIO82oiJVIIH4I/PAvP97U1HQD8Bjwvzc1NX0jkUgc\n",  
"n/ZxkgSkMgE/fKqTRw91MJ7KUJAd5fNravmbqxYSi3rpoCRJkiRdKLPiR2UIEomfA9/k9bOy3hPy\n",  
"HEnz1NMnh9j8w2d5YH8b46kM77y4jIduXmbfXV1pwJikSZKkC2xGvRPrbfScvi0MdYWkeWdgLMXD\n",  
"B9v4xbPdANQU53BnQ5y18ZKQl0mSJEnS/DGbtIaq07deSihpWgRBwG9f7OX+fa30j6XlikZoWIHF\n",  
"p6+tJdrVryRVZIKSZLmjGmPWE1NTY8C64DH/vKQ9qampv8B/I9EItH2Fx+/GXg3kAR+PV1bJc1f\n",  
"J/rG2Nmc5Ej7EAARqovY2hhncXleyMskSZIKaX4674jV1NRUD3zq9G8vPX27rKmp6X89/etjiUTi\n",  
"T8PTYuByoPoNHu6/AFubmpr2AU+f/tgKYD0wAHwmkUhMnO9mSXoz46kM336yg+8d7SSVCSjNy+LW\n",  
"dbW877IFRCKeeyVJkiRJYZmKd2ItBf7fP/I9wOuX/q0+/ftH+PN3TwWn/3sjXwY+CCwDPgHkA63A\n",  
"/cD/k0gkXp2CvZL0hg62DHDx7iRtA6+38g9eUcEX19ZSkjebrryWJEmSpLpTr+t4PHHHw8AVq9e\n",  
"/XZ3ITSPdY9Mct/eFv7wch8AF5Xnsa0xztXVRSEvkyRjkqSZ59ChQwBcf/3109qVfHuBpHkrnQn4\n",  
"2fEuvnawjZHJDLmxCJ9dXcPHrqkiKzqnG78kSZIkzTpGLEnz0gtdI2zfleT5rhEA1sdL2NxQT3Vx\n",  
"bsjLJEmSJEIvXglaV4Znkjz9Sfa+ckzp8gEsLAwm80b62lYUurB7ZIKSZIOgxmxJM0LQRDwx1f7\n",  
"uHdPK90jk0Qj8PHlldx8XQ352bGw50mSJEmS3oYRS9Kc1z4wzl27WzjQMgDAIZUFbNsU59KKgpCX\n",  
"SZIKSZLOIBFL0pw1mc7w/WOdFPNwBxPpgMKcGF9cW8uHrqwg6qWDkiRjKjSrGLEkzUIH24fY0Zzk\n",  
"RN8YAO+5tJzb1tdRXpAd8jJkiRJ0rkwykmaU/rHUjywr5V/eaEHgLqSXYL2xllVVxyMkmSJEnS\n",  
"+TBiSZoTmKHAr5/v4cH9rQyOp8mORbhp5SI+sWIROVnRnsOdJkiRjKs6TEUvSrPdKzyg7m5M8dXIY\n",  
"gFW1xWxtrKeuNC/kZZIKSZKkqWLEkjRrjU6m+dbhDr5/rJN0AOX5Wdy+oY53XVJOxIPbJUmSJGIO\n",  
"MWJJmpX2nejnrt0tnByaIAL8zVUL+cKaGopy/WtNkiRjkuYiX+IJmlVODU9w754Wdr3aD8CIFfls\n",  
"bYxzVVVhyMskSZIKSReSEUvSrJDOBpzo6VM8eqid0ckM+dIRPnddDR9ZVks6qWDkiRjKjTXGbEk\n",  
"zXjHO4fZvivJyz2jAGy6qJQ7NtZTWZgT8jJkiRJ0nQxYkmasYbGUzx8sJ2fH+8iABYV5bC5oZ4N\n",  
"i0vDniZJkiRjmmZGLEkzThAE/O6lXu7f10rvaIpYBG5csYhPX7u/OxY2PMkSZIKSSEwYkmaUVr7\n",  
"x9jR3MLhtkEAli8qZOumOBeV54e8TJkSZIUjOWpBlhIpXhu0dP8p0jJ5IMBxTnxrh1XR3vv3wB\n",  
"OYgHt0uSJEnSfGfEkhS6Q60D7GxuoXVgHID3X7aW9fXUZrnX1GSJEmSpNf5CIFSaHpHJrlvXyu\n",  
"e6kXgMVleWxtrGdFTXHIyyRjkiRJM40RS9K0ywQBv3i2m4cOtDE8kSYnFuEzq6q58Z0qsmPRsOdJ\n",  
"kiRjkmYgI5akafVS9wjbdyV59tQIAGvrS7izoZ6aktyQl0mSJEmSZjIjLqRpMTRK5tFD7fzo6VnK\n",  
"AqgoyOaOjXW846IyIh7cLkmSJEI6G0YsSRdUEAQ0v9bPPXta6BqeJBqBj15dyc3X1VCYEwt7niRJ\n",  
"kiRpljBiSbpgTg5OcNfuJPuSAwBcwrCAbZviXLawIORikiRjKqTZxoglacqIMgGPHevkG4c7GE9l\n",  
"KMioCsvaWm64ciGxqJcOSpIkSZLONhFL0pR6qmOIHC1JXu0dA+Bdl5Rx24Z6KggqY14mSZIKSZrN\n",  
"jFiSpsTAWIoH97fxq+e7AagtyeHOjhjr6ktCXiZJkiRjmgmMWJLOSxAE/OaFHH7Y30b/WIqsaIRP\n",  
"rlzEp1YuIjcrGvY8SZIKSdIcYcSSdM5O9I6xoznJ0Y4hAFbWFLGIMc7isryQl0mSJEmS5hojIqSz\n",

"NpbK8O3DHSSOdZLKBjTmZXHb+jreu7ScSMSD2yVJkiRJU8+JjemsHEgOsHN3ko7BCQA+dGUft6yp\n",  
"pSTPv04kSZIKSReOrzolnZH4Unu3dvCv73SB8DF5Xls3RTn6kVFIS+TJEmSJM0HRixJbymdCfjpn",  
"8S4eOdjGyGSG3KwoN6+u5qPLq8iKeumgJEmSJGl6GLEkvannT42wvfkEL3SNArBxSSmbN9ZTVZQT\n",  
"8jJkiRJ0nxjxJL0nwxPpHnkYBs/eaalAKgszGZzQz0NS8rCniZJkiRjmqeMWJL+QxAE/OHIPu7b\n",  
"20LPaIpoBD6+vIrPrq4mPzsW9jxJkiRJ0jmxJIEQNvAOHftTnKwZRCZVWVfB2Mc0IFfsJLJEmS\n",  
"JEkyYkz3kQ6Q+JoJ99+soOJdEBxbowvrq3lr6+oIBrx4HZJkiRJ0sngxJLmsSNtg+xoTpLsHwfg\n",  
"+qXl3Lq+jvL87JCSXZIKSZL054xY0jzUOzrJA/vbePyFHgDqS3PZ2hjn2trikJdJkiRjKvTGjFjS\n",  
"PJIAn71XDcPHWhjcDxNdizCTddW84kVVeTEomHPkyRjkiTpTRmrxpHnilZ5Rtu9K8kznMACr64rZ\n",  
"0hCnrjQ35GWSJEmSJL09I5Y0x41OpvnnQx384KIOMgEsyM/i9g31vPOSMile3C5JkiRjmiWMWNIc\n",  
"tue1fu7ek6RzaJII8JFIC/n8mloKc2JhT5MksZIK6awYsaQ5qHNogrv3tLDntX4Allbks21TnCsqn",  
"C0NeJkmSJEnSuTFiSXNIKhpwo6c6efRQB2OpDAXZUT53XQ1/u6ySWNRLByVJkiRjS5cRS5ojjncO\n",  
"s33XCV7uGQPgry4u4/YNdSwszAl5mSRJkiRJ58+IjclYg+Mphj7Qxi+e7SYAqotzuLOhnnXx0rCn\n",  
"SZIKSZI0ZYxY0iwVBAG/fbGXr+5rpW8sRVY0QtM1Vdy0ppq8rGjY8yRjkiRjmiJGLGkWSvaNsaM5\n",  
"yZH2IQCWVxeyrTHOkvL8kjdJkiRjknRhGLGkWWQileE7R07y3SMnmwEIOTG+PL6Ot532QliEQ9u\n",  
"IyRjkiTNXUYsaZZ4omWAnbtaBsYB+CvL6/gS+tgKcnzf2NjkiRJ0tznq19phusZmeT+fa387qVe\n",  
"AJaU57GtMc7y6qKQl0mSJEmSNH2MWNIMlc4E/PzZLh4+0MbIZIbcWIS/X13Dx5ZXkh3z4HZJkiRJ\n",  
"OvxixJJmoBe6RtjRnOS5UyMARl+XsLmhnuri3JCXSZIKSZIUDIOWNIOMTKT5+qF2fvz0KTIBLCzI\n",  
"5isb62m8qNSD2yVJkiRJ85oRS5oBgiBg16v93Lunha6RSaIR+NjySm5eXUNBTizseZIKSZIKhc6I\n",  
"JYwSfXCcu3e3sD85AMAVIQVsa4yzdGFBYmSkSZIKSZo5jFhSSCbTGb5/rJNvHe5gPB1QmBPjU1\n",  
"fOjKhcSiXjooSZIKsdKfMmJITjWmSOXUle6xsD4N2XlnPb+joWFGSHvEySJEmSpJnJiCVNo/6x\n",  
"FA/ub+XXz/cAUFuSy5aGeq6rLwl5mSRJkiRJM5sRS5oGQRDwLy/08MC+VgbG02RHI3xy5SI+tXIR\n",  
"OVnRsOdJkiRjKtjTjGbGkC+zV3IF2NCd5qmMYgFW1RWxpjFNfmhfyMkmSJEmSZg8jlnSBjKUyFPNw\n",  
"B98/epJ0AGV5Wdy2oY73XFpOJOLB7ZIKSZIKnQ0jlnQB7E/2s7O5hZNDDE0SAD1+5kC+sraE41/l\n",  
"JEmSJek6F76ilqbQqeEJ7t3Tyq5X+wC4ZEE+2zbFuaqqMORlkiRjkiTNbkYsaQqkMwe/fUYUX3+i\n",  
"ndHJDHIZUT53XQ1/d3UlsaiXDkqSJEmSdL6MWNJ5erZzmB3NSV7sHgWgcUkpd2ysp6ooJ+RlkiRJ\n",  
"kiTNHUYS6RwnJaf42sF2fna8iwCoKsmp88Y4G5eUjh1NkiRjKqQ5x4glnaUgCpj9y33cv7eF1GQS\n",  
"AwAAFh5JREFUntEUsQh8/JoqPrOqmvzsWNjzJEmSJEmak4xY0llo7R9n5+4kh1oHABh6USFbG+Nc\n",  
"vCA/5GWSJEmSJM1tRizpDEykm3zvyEm+feQkk+mA4twYX1pXxwcuX0A04sHtkiRjkiRdaEYs6W0c\n",  
"bhtkZ3OSlv5xAN532QJuXVdLWX52yMskSZIKSZo/jFjSm+gdmeSr+1v57Yu9AMRLc9naGGdlbXHI\n",  
"yyRjkiRjmn+MWNJfyAQBV3i2m4cPtDE0kSYnFuHT11bTtKKK7Fg07HmSJEmSJM1LRizpT7zUPcKO\n",  
"5iTHO0cAWFNfzJ0NcWpLckNeJkmSJEnS/GbEkoDRyTtFONTBY091kgLQUEWX9lQzzsuLiPiwe2S\n",  
"JEmSJIXOiKV5r/nVPu7e00LX8CTRCHxkWSWfX1NDYU4s7GmSJEmSJOk0I5bmrZODE9yzp4U9J/oB\n",  
"uGxhPtsaF3N5ZUHlYyRjkiRJ0l8yYmneSWUCHnuqk28c6mA8laEgO8oX1tTy4asWEot66aAkSZIK\n",  
"STOREUvzytMdQ2xvTvJq7xgA77ykjNvX11NRmB3yMkmSJEmS9FaMWJoXBsZSPHSgjV8+1w1ATXEO\n",  
"dzbEWRsvCXmZJEmSJek6E0YszWIBEPD4iz18dV8b/WMpsqIRPrGiiPuurSY3Kxr2PEmSJEmSdIaM\n",  
"WJqzTvSNsbM5yZH2IQBWBextTHO4vK8kjdJkiRjKqSzZcTSnDOeyvDtJzv43tFOUpmA0rwsvry+\n",  
"luuXLiAS8eB2SZIKSZImIyOW5pSDLQpsbe7SPjgBwAevqOCLa2spyfOPuiRjkiRjS5mv7DUndA9P\n",  
"ct/eFv7wSh8AF5Xnsa0xztXVRSEvkyRjkiRJU8GIpVktNqn42fEuvnawjZHJDLIZUT67upqPLa8i\n",  
"K+qlg5IkSZIKzRVGLM1az3eNsH3XCV7oGgVgw+ISNm+Ms6g4J+RlkiRjkiRpqhmxNOSMT6R55GA7\n",  
"Pz1+ikwACwuz2byxnoYlpr7cLkmSJEnSHGXEQwRBAF/fKWPe/a20DOSIhqBG6+p4rOrq8nPjoU9\n",  
"T5IkSZIKXUBGLM0K7QPj7Nyd5GDLIABXVRWwtTHOpRUFIS+TJEmSJEnTwYilGW0yneH7xZR55uEO\n",  
"JtIBRTkxblly4eurCDqpYOSJEmSJM0bRizNWEfbB9nR3MKJvjEA3ru0nC+vq6O8IDvKZZIKSZIK\n",  
"aboZsTTj9I1O8sD+Nn7zQg8A9aW5bGmMs6q2OORlkiRjkiQpLEYSzRiZIODXz3Xz4IE2BsfTZMci\n",  
"3LRyEZ9YyYicWDTseZIKSZIKURGLM0Ir/SMSqM5ydMnhwFYVVvM1sZ66krzQ14mSZIKSZJmAiOW\n",  
"QjU6meabhvz4wbFO0gGU52dx+4Y63nVJOREPbpcKszIKSacZsRSavSf6uXt3CyeHJogAf3PVQR6w\n",  
"poaiXP9YSpIkSZKkP2ct0LTrHJrg3j0tNL/WD8Clfilsa4xzZVVhyMskSZIKsdJMzCtStElnAn74\n",  
"9CkafaKdsVSG/Owon7uuhosqyQW9dJB/f/t3XlW3OV5wPGvVrIkY4d84FOSzWEwcYwDxviSmxJK\n",  
"SKgzaa63pqWQC2II4ByTadpOJ2mmM0wm004GAwVCiKnTNMebkgQMgQRKCaCwb2NwDLA5HBxJlu/7\n"

"0rn9Y1eJohYx65WK30/M5pX+/v99tlnbc07jx69v3clSZIkSeqaTSz1i617jnPHmlq2HzgJwJKz\n",  
"x3DzogomjCjOcWaSJEmsJCKf2MRSVh1tbOfbzzf6LZ9JIFJ14u5dXEIC6aV5zo1SZIkSZKUR2xi\n",  
"KSuSyST/+8ZB7nu2nkOnWigsI/MmcS110ymtCiR6/QkSZIkSVKesYmljKs7fIo7a2p5YecxAGZP\n",  
"GsGKJVWcPXZ4jjOTJEmSJEn5viaWMqappY3vb9rNDzbtprktyeiSQm5cUMG7zx9HosCN2yVJkiRJ\n",  
"Uu/ZxFJGbkW/wp01ddQfaQTgPREm44b5FZSX+iMmSZIkSZL6zg6D+uTAiWbuW1/P028cBGD6mFJu\n",  
"q65izpSRoc5MkiRjkiQNjx1CutbUke27aPBzc0cLypLZLCAq6dO5kPz57IsEI3bpckSZIkSZIL\n",  
"E0s99vq+E9xRU8sre08AcFnlaG6trmTKqJicZyZJkiRjkgYrm1jqthNNraza2MBPXt5LWxLGLw3j\n",  
"04sqWXJ2OQVU3C5JkiRjkrLIJpbOKJIMUvPmYf5jXR37TjSTKIAPvn0C1186hRHFhblOT5IkSZIk\n",  
"DQE2sfSWdh1t5O61dayvPQLAzAllrKiu4vyzynKcmSRJkiRJGkpsYum0WtqS/M/mPfxXgYaW5OU\n",  
"DUvvicumsvTCsyhMeOugJEmSJEnqXzax9Cde2nWMO2pq2XHWfACXnzuG5QsrGV82LMeZSZIkSZKk\n",  
"ocomln7vyKkWvncTh5/dT8AU0cXc+viKuZVjs5xZpIkSZIkkaaziSWSySS/eO0A31hfz5HGVoos\n",  
"BSx7xySuecckSooSuU5PkiRjkiTJtZQt+PgSVbW1LF51zEA3jFIJLdVVzFtTGMOM5MkSZIkSfoD\n",  
"m1hd1KmWNv77hV3E3+yMNQnlpUUsX1DBX8wYS0GBG7dLkiRjKqSBxSbWEPRc7WHuWlvHrqNNACy9\n",  
",  
"cDyfuGwqo0r8cZAKSZIkSQOTXYshZN/xJu55tp5f/fYQAOeMLeUzS6Yxa9KIHGcmSZIkSZL01mxi\n",  
"DQGtbUke3rKX//x1Ayea2ygtSnD93Ml8YPZEihLeOihJkiRjkgY+m1iD3Ct7j3PHmlpe338SgMXT\n",  
"y/n0okomjizOcWaSJEmsJEndZxNrkDre1Mq3NuzkkS37SAITRgzj1sVVLJpenuvUJEmSJEmSeswm\n",  
"iCTTCZ5Zvsh7n22jgMnW0gUwEdmT+Tv5k5m+LDCXKcnSZIkSZLUKzaxBpH6w43ctbaWX9cfBWDW\n",  
"xBGsqK7i3PHDc5yZJEmSJELS39jEGgSaWtv44W/28L0Xd9HcmmRUSSGfvGwq7505nkSBG7dLkiRJ\n",  
"kqT8ZxMrz7248ygra2qpO9wIwJXnj+PG+VMZO3xYjjOTJEmSJEnKHJtYeergyWbuX1/Pk68fBKCy\n",  
"vIQV1VVcPHVUjjOTJEmSJEnKPJtYeaYtmeTxV/bzwPM7OdrYyrDCAv724smEORMpLkzkOj1JkiRJ\n",  
"kqSssImVR7bvP8nKmlq27DkOwKUVo7h1cRUV5SU5zkySJEmSJCm7bGLlgZPNrXxn4y4eemkPbUkY\n",  
"N7yImxZW8ufnjqHAjdsLSZIkSdiQYBNrgFu74x3r61j7/FmCoC/mnUWH5s3IRHFhblOTZIkSZIk\n",  
"qd/YxBqg9hxr4u51dazbcRiAGeOH89k107hgQlOM5MkSZIkSep/NrEGmJa2JD9+aQ+rNu6isaWN\n",  
"smEJPnrpFN4/awKFCW8dlCRJkiRJQ5NNrAFky+7jrKz5HdsPnALgneeM4aaFFZw1ojjHmUmSJEmS\n",  
"JOWWTawB4MipFh7csJPHtu0HYPKoYm5dXMn8qvIcZyZJkiRjKqW2MTKoWQyyVOvH+S+9fUcPtV\n",  
"UaKAcNFE/uaSyZQWJXKdniRjkiRJ0oBhEytHag+dYmVNLZsajgFw0eSRrKiuZPrY4TnOTJkSZIk\n",  
"aeCxidXPGIva+P6m3fxw026a25KMLinkUwsqePf54ygocON2SZIkSZKk07GJ1Y821B3hrW17DzS\n",  
"BMB7LxjPDefOnMrrU/wZJkiRjKqS3YvekH+w/0cy9z9bzxPZDAEwfW8pnquYPXlkjiOTJEmSJEnK\n",  
"Dzaxsqi1Lcmj2/bx4PM7OdHcRklhAdfNncKHLppIUcJbByVJkiRjkrLJlaWvLbvBCtranll7wkA\n",  
"FISN5pbFIUweVZLjzCRJkiRjKvKPTawMO97UyqpfN/DTLXtpS8JZZcP49OJKqXeXu3G7JEmSJELS\n",  
"L9nEypBkMsmv3jzEPevq2X+imUQBfHj2BK6bO4WY4sJcypdJkiRjKpTXbGJIQMORRu5aW8fzdUcA\n",  
"mDmhjM8uqeK88WU5zkySJEmSJGlsInVB82tbfxo8x6++8lumlqTjCgu5JOXTeXqmeMpdON2SZIk\n",  
"SZKkjLGG1Uu/aTjGypafnfFoFADvOm8syxdUMK5sWI4zkyRjkiRJGnxsYvXQ4VMtfPO5ep549QAA\n",  
"FaNLuK26krkVo3OcmSRJkiRJ0uBIE6ub2pJfV7qAe5/rp6jja0MSxRwzcWTWDZnEsVFiVynJ0mS\n",  
"JEmSNKjZxOqGNw+eZOWaW17afRyAS6aO5LbqKirLS3OcmSRJkiRJ0tDgEqK3cKqljQee38nND23j\n",  
"pd3HGVNaxD9cPp2vXj3DBpY0xD3yyCO5TkHSIOTclikbnFskDRY2sbqw/neHufFW/nBpt20JeF9\n",  
"F57FA+FtXDFjHAUFfvKgNNStXr061yIIGoScWyRlg3OLpMHC2wk72Xu8iXvW1bHmzcManDtuOJ9Z\n",  
"UsXbJo7IcWaSJEmsJEIDV0abWCGEmcDLwPdijNf1MsZ04MvAVcAE4CDwDPCVGOOWTOXaWWtbkp+8\n",  
",  
"vJdVGxs42dxGaVGCj146hQ+8fQKFCVdeSZIkSZIk5VKfm1ghhPOAzWNTSDWeEkCyl7FmA0uA8cCT\n",  
"wFbgBOCDwNIQwuUxxg19zmbzbXuOc0dNLW/sPwnAkrPLuWlhJRNHFmf6pSRJkiRjktQLmViJVQXc\n",  
"TC8bV518nVQD65YY4z3tB0MI7wMeBu4F5mXgdQA41tjCgxsaeHTrPpLApJHF3LK4koXTYjP1EpIk\n",  
"SZIkScqAPm/sHmP8ZYwxEWMsBK7obZwQwgTgamBHxwZW+jVWA2uAuSGEi/qUMJBMJnn6jQN88kdb\n",  
"Wb11H4kCWDZnIt/48IU2sCRJkiRjKqGtg/s3pfNo+aTaqqt7+L8WmAJUA1s7u2L1B8+xcqaOI7Y\n",  
"eRSAt08awYrqKs4ZN7y3ISVJkiRjKpRIA+nTcC9Nj3u6OF+fHs/pTfCm1jZ+sGk339+0m+bWJKNK\n",  
"CrlhfgXvuWAcIQI3bpckSZIkSRrIBIITa1R6PNLF+RPpcXRPA79Qf5Q719ZSd7gRgKvOH8cN86cy\n",  
"ZviwnmcpSZIkSZKkfjeQmljtWro43uvlUl/82esATBTytorqSuZMGXWGZ0iSJEmSJGkgGUhNrKPP\n",



```

"%matplotlib inline\n",
"plt.plot([1,2,3])"
]
},
{
"cell_type": "code",
"execution_count": 3,
"metadata": {
"collapsed": false
},
"outputs": [
{
"data": {
"text/plain": [
" [<matplotlib.lines.Line2D at 0x10cd9cb10>]"
]
},
"execution_count": 3,
"metadata": {},
"output_type": "execute_result"
}
],
"source": [
"# New GUI window--should *NOT* have the visual settings of inline\n",
"%matplotlib qt\n",
"plt.plot([1,2,3])"
]
},
"metadata": {
"kernel_spec": {
"display_name": "Python 3",
"language": "python",
"name": "python3"
},
"language_info": {
"codemirror_mode": {
"name": "ipython",
"version": 3
},
"file_extension": ".py",
"mimetype": "text/x-python",
"name": "python",
"nbconvert_exporter": "python",
"pygments_lexer": "ipython3",
"version": "3.4.2"
}
},
},

```

```
"nbformat": 4,  
"nbformat_minor": 0  
}
```

## 5.20 ipython\_genutils 0.1.0 :1

### 5.20.1 Available under license :

# Licensing terms

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-, IPython Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the IPython Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## About the IPython Development Team

The IPython Development Team is the set of all contributors to the IPython project. This includes all of the IPython subprojects.

The core team that coordinates development on GitHub can be found here:



<https://github.com/jupyter/>.

## ## Our Copyright Policy

IPython uses a shared copyright model. Each contributor maintains copyright over their contributions to IPython. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the IPython source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire IPython Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the IPython repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) IPython Development Team.  
# Distributed under the terms of the Modified BSD License.
```

## 5.21 ipywidgets 6.0.0b5 :1

### 5.21.1 Available under license :

```
# Licensing terms
```

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2016, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## ## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:

- <https://github.com/jupyter/>
- <https://github.com/ipython/>

## ## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.  
# Distributed under the terms of the Modified BSD License.
```

## 5.22 Jinja2 2.8

### 5.22.1 Available under license :

Copyright (c) 2010 by Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

We kindly ask you to only use these themes in an unmodified manner just for Flask and Flask-related products, not for unrelated projects. If you like the visual style and want to use it for your own projects, please consider making some larger changes to the themes (such as changing font faces, sizes, colors or margins).

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* The names of the contributors may not be used to endorse or promote products derived from this software without specific

prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.23 jsonschema 2.5.1

### 5.23.1 Available under license :

Copyright (c) 2013 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.24 jupyter\_client 4.3.0 :1

### 5.24.1 Available under license :

# Licensing terms

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## ## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:  
<https://github.com/jupyter/>.

## ## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.  
# Distributed under the terms of the Modified BSD License.
```

# 5.25 jupyter\_core 4.1.0 :1

## 5.25.1 Available under license :

# The Jupyter licensing terms

Jupyter is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

### ## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects. A full list with details is kept in the documentation directory, in the file ``about/credits.txt``.

The core team that coordinates development on GitHub can be found here: <https://github.com/ipython/>.

### ## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. It is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.  
# Distributed under the terms of the Modified BSD License.
```

# 5.26 jupyterhub 0.5.0 :1

## 5.26.1 Available under license :

# The Jupyter multi-user notebook server licensing terms

Jupyter multi-user notebook server is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2014-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here: <https://github.com/jupyter/>.

## Our Copyright Policy



Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.  
# Distributed under the terms of the Modified BSD License.  
Copyright (c) 2011-2014 Tim Wood, Iskren Chernev, Moment.js contributors
```

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.27 Mako 1.0.4 :1

### 5.27.1 Available under license :

This is the MIT license: <http://www.opensource.org/licenses/mit-license.php>

Copyright (C) 2006-2016 the Mako authors and contributors <see AUTHORS file>. Mako is a trademark of Michael Bayer.

Permission is hereby granted, free of charge, to any person obtaining a copy of this

software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.28 MarkupSafe 0.23

### 5.28.1 Available under license :

Copyright (c) 2010 by Armin Ronacher and contributors. See AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well as documentation, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER

OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.29 MarkupSafe 0.23 :1

### 5.29.1 Available under license :

Copyright (c) 2010 by Armin Ronacher and contributors. See AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well as documentation, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 5.30 matplotlib 1.5.1 :1

## 5.30.1 Available under license :

```
### MATPLOTLIBRC FORMAT

# This is a sample matplotlib configuration file - you can find a copy
# of it on your system in
# site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
# there, please note that it will be overwritten in your next install.
# If you want to keep a permanent local copy that will not be
# overwritten, place it in the following location:
# unix/linux:
# $HOME/.config/matplotlib/matplotlibrc or
# $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
# other platforms:
# $HOME/.matplotlib/matplotlibrc
#
# See http://matplotlib.org/users/customizing.html#the-matplotlibrc-file for
# more details on the paths which are checked for the configuration file.
#
# This file is best viewed in a editor which supports python mode
# syntax highlighting. Blank lines, or lines starting with a comment
# symbol, are ignored, as are trailing comments. Other lines must
# have the format
# key : val # optional comment
#
# Colors: for the color values below, you can either use - a
# matplotlib color string, such as r, k, or b - an rgb tuple, such as
# (1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar
# grayscale intensity such as 0.75 - a legal html color name, e.g., red,
# blue, darkslategray

#### CONFIGURATION BEGINS HERE

# The default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo
# CocoaAgg MacOSX Qt4Agg Qt5Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG
# Template.
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'.
backend      : agg

# If you are using the Qt4Agg backend, you can choose here
# to use the PyQt4 bindings or the newer PySide bindings to
# the underlying Qt4 toolkit.
#backend.qt4 : PyQt4      # PyQt4 | PySide
```

```

# Note that this can be overridden by the environment variable
# QT_API used by Enthought Tool Suite (ETS); valid values are
# "pyqt" and "pyside". The "pyqt" setting has the side effect of
# forcing the use of Version 2 API for QString and QVariant.

# The port to use for the web server in the WebAgg backend.
# webagg.port : 8888

# If webagg.port is unavailable, a number of other random ports will
# be tried until one that is available is found.
# webagg.port_retries : 50

# When True, open the webbrowser to the plot that is shown
# webagg.open_in_browser : True

# When True, the figures rendered in the nbgg backend are created with
# a transparent background.
# nbgg.transparent : True

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try to find a compatible one for
# you if backend_fallback is True
#backend_fallback: True

#interactive : False
#toolbar : toolbar2 # None | toolbar2 ("classic" is deprecated)
#timezone : UTC # a pytz timezone string, e.g., US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location. This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata

### LINES
# See http://matplotlib.org/api/artist\_api.html#module-matplotlib.lines for more
# information on line properties.
#lines.linewidth : 1.0 # line width in points
#lines.linestyle : - # solid line
#lines.color : blue # has no affect on plot(); see axes.prop_cycle
#lines.marker : None # the default marker
#lines.markeredgewidth : 0.5 # the line width around the marker symbol
#lines.markersize : 6 # markersize, in points
#lines.dash_joinstyle : miter # miter|round|bevel
#lines.dash_capstyle : butt # butt|round|projecting
#lines.solid_joinstyle : miter # miter|round|bevel
#lines.solid_capstyle : projecting # butt|round|projecting
#lines.antialiased : True # render lines in antialiased (no jaggies)

```

#markers.fillstyle: full # full|left|right|bottom|top|none

### ### PATCHES

# Patches are graphical objects that fill 2D space, like polygons or  
# circles. See  
# [http://matplotlib.org/api/artist\\_api.html#module-matplotlib.patches](http://matplotlib.org/api/artist_api.html#module-matplotlib.patches)  
# information on patch properties  
#patch.linewidth : 1.0 # edge width in points  
#patch.facecolor : blue  
#patch.edgecolor : black  
#patch.antialiased : True # render patches in antialiased (no jaggies)

### ### FONT

#  
# font properties used by text.Text. See  
# [http://matplotlib.org/api/font\\_manager\\_api.html](http://matplotlib.org/api/font_manager_api.html) for more  
# information on font properties. The 6 font properties used for font  
# matching are given below with their default values.  
#  
# The font.family property has five values: 'serif' (e.g., Times),  
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),  
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of  
# these font families has a default list of font names in decreasing  
# order of priority associated with them. When text.usetex is False,  
# font.family may also be one or more concrete font names.  
#  
# The font.style property has three values: normal (or roman), italic  
# or oblique. The oblique style will be used for italic, if it is not  
# present.  
#  
# The font.variant property has two values: normal or small-caps. For  
# TrueType fonts, which are scalable fonts, small-caps is equivalent  
# to using a font size of 'smaller', or about 83% of the current font  
# size.  
#  
# The font.weight property has effectively 13 values: normal, bold,  
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as  
# 400, and bold is 700. bolder and lighter are relative values with  
# respect to the current weight.  
#  
# The font.stretch property has 11 values: ultra-condensed,  
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,  
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This  
# property is not currently implemented.  
#  
# The font.size property is the default font size for text, given in pts.  
# 12pt is the standard value.  
#

```

#font.family      : sans-serif
#font.style       : normal
#font.variant     : normal
#font.weight      : medium
#font.stretch     : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
#font.size        : 12.0
#font.serif       : Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman,
Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
#font.sans-serif  : Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde,
sans-serif
#font.cursive     : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
#font.fantasy     : Comic Sans MS, Chicago, Charcoal, Impact, Western, Humor Sans, fantasy
#font.monospace   : Bitstream Vera Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed,
Terminal, monospace

```

### ### TEXT

```

# text properties used by text.Text. See
# http://matplotlib.org/api/artist\_api.html#module-matplotlib.text for more
# information on text properties

```

```

#text.color       : black

```

### ### LaTeX customizations. See <http://wiki.scipy.org/Cookbook/Matplotlib/UsingTex>

```

#text.usetex      : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list
#text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.
#text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,

```

```

# type lcm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

#text.dvipnghack : None # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

#text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.

#text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

#text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm : serif
#mathtext.tt : monospace
#mathtext.it : serif:italic
#mathtext.bf : serif:bold
#mathtext.sf : sans
#mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
# 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
# fonts when a symbol can not be found in one of
# the custom math fonts.

#mathtext.default : it # The default font to use for math.
# Can be any of the LaTeX font names, including
# the special name "regular" for the same font
# used in regular text.

```



```

### AXES
# default face and edge color, default tick sizes,
# default font sizes for tick labels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
#axes.hold      : True # whether to clear the axes by default on
#axes.facecolor : white # axes background color
#axes.edgecolor : black # axes edge color
#axes.linewidth : 1.0 # edge linewidth
#axes.grid      : False # display grid or not
#axes.titlesize : large # fontsize of the axes title
#axes.labelsize : medium # fontsize of the x and y labels
#axes.labelpad  : 5.0 # space between label and axis
#axes.labelweight : normal # weight of the x and y labels
#axes.labelcolor : black
#axes.axisbelow : False # whether axis gridlines and ticks are below
                        # the axes elements (lines, text, etc)

#axes.formatter.limits : -7, 7 # use scientific notation if log10
                        # of the axis range is smaller than the
                        # first or larger than the second
#axes.formatter.use_locale : False # When True, format tick labels
                        # according to the user's locale.
                        # For example, use ',' as a decimal
                        # separator in the fr_FR locale.
#axes.formatter.use_mathtext : False # When True, use mathtext for scientific
                        # notation.
#axes.formatter.useoffset : True # If True, the tick label formatter
                        # will default to labeling ticks relative
                        # to an offset when the data range is very
                        # small compared to the minimum absolute
                        # value of the data.

#axes.unicode_minus : True # use unicode for the minus symbol
                        # rather than hyphen. See
                        # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
#axes.prop_cycle :ycler('color', 'bgrcmyk')
                        # color cycle for plot lines
                        # as list of string colorspecs:
                        # single letter, long name, or
                        # web-style hex

#axes.xmargin : 0 # x margin. See `axes.Axes.margins`
#axes.ymargin : 0 # y margin See `axes.Axes.margins`

#polaraxes.grid : True # display grid on polar axes
#axes3d.grid : True # display grid on 3d axes

### TICKS

```

```

# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
#xtick.major.size : 4 # major tick size in points
#xtick.minor.size : 2 # minor tick size in points
#xtick.major.width : 0.5 # major tick width in points
#xtick.minor.width : 0.5 # minor tick width in points
#xtick.major.pad : 4 # distance to major tick label in points
#xtick.minor.pad : 4 # distance to the minor tick label in points
#xtick.color : k # color of the tick labels
#xtick.labelsize : medium # fontsize of the tick labels
#xtick.direction : in # direction: in, out, or inout

#ytick.major.size : 4 # major tick size in points
#ytick.minor.size : 2 # minor tick size in points
#ytick.major.width : 0.5 # major tick width in points
#ytick.minor.width : 0.5 # minor tick width in points
#ytick.major.pad : 4 # distance to major tick label in points
#ytick.minor.pad : 4 # distance to the minor tick label in points
#ytick.color : k # color of the tick labels
#ytick.labelsize : medium # fontsize of the tick labels
#ytick.direction : in # direction: in, out, or inout

### GRIDS
#grid.color : black # grid color
#grid.linestyle : : # dotted
#grid.linewidth : 0.5 # in points
#grid.alpha : 1.0 # transparency, between 0.0 and 1.0

### Legend
#legend.fancybox : False # if True, use a rounded box for the
# legend, else a rectangle
#legend.isaxes : True
#legend.numpoints : 2 # the number of points in the legend line
#legend.fontsize : large
#legend.borderpad : 0.5 # border whitespace in fontsize units
#legend.markerscale : 1.0 # the relative size of legend markers vs. original
# the following dimensions are in axes coords
#legend.labelspacing : 0.5 # the vertical space between the legend entries in fraction of fontsize
#legend.handlelength : 2. # the length of the legend lines in fraction of fontsize
#legend.handleheight : 0.7 # the height of the legend handle in fraction of fontsize
#legend.handletextpad : 0.8 # the space between the legend line and legend text in fraction of fontsize
#legend.borderaxespad : 0.5 # the border between the axes and legend edge in fraction of fontsize
#legend.columnspacing : 2. # the border between the axes and legend edge in fraction of fontsize
#legend.shadow : False
#legend.frameon : True # whether or not to draw a frame around legend
#legend.framealpha : None # opacity of of legend frame
#legend.scatterpoints : 3 # number of scatter points

```

```

#### FIGURE
# See http://matplotlib.org/api/figure\_api.html#matplotlib.figure.Figure
#figure.titlesize : medium # size of the figure title
#figure.titleweight : normal # weight of the figure title
#figure.figsize : 8, 6 # figure size in inches
#figure.dpi : 80 # figure dots per inch
#figure.facecolor : 0.75 # figure facecolor; 0.75 is scalar gray
#figure.edgecolor : white # figure edgecolor
#figure.autolayout : False # When True, automatically adjust subplot
# parameters to make the plot fit the figure
#figure.max_open_warning : 20 # The maximum number of figures to open through
# the pyplot interface before emitting a warning.
# If less than one this feature is disabled.

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
#figure.subplot.left : 0.125 # the left side of the subplots of the figure
#figure.subplot.right : 0.9 # the right side of the subplots of the figure
#figure.subplot.bottom : 0.1 # the bottom of the subplots of the figure
#figure.subplot.top : 0.9 # the top of the subplots of the figure
#figure.subplot.wspace : 0.2 # the amount of width reserved for blank space between subplots
#figure.subplot.hspace : 0.2 # the amount of height reserved for white space between subplots

#### IMAGES
#image.aspect : equal # equal | auto | a number
#image.interpolation : bilinear # see help(imshow) for options
#image.cmap : jet # gray | jet etc...
#image.lut : 256 # the size of the colormap lookup table
#image.origin : upper # lower | upper
#image.resample : False
#image.composite_image : True # When True, all the images on a set of axes are
# combined into a single composite image before
# saving a figure as a vector graphics file,
# such as a PDF.

#### CONTOUR PLOTS
#contour.negative_linestyle : dashed # dashed | solid
#contour.corner_mask : True # True | False | legacy

#### ERRORBAR PLOTS
#errorbar.capsize : 3 # length of end cap on error bars in pixels

#### Agg rendering
#### Warning: experimental, 2008/10/10
#agg.path.chunksize : 0 # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,

```

```

        # especially if they are very gappy.
        # It may cause minor artifacts, though.
        # A value of 20000 is probably a good
        # starting point.
#### SAVING FIGURES
#path.simplify : True # When True, simplify paths by removing "invisible"
        # points to reduce file size and increase rendering
        # speed
#path.simplify_threshold : 0.1 # The threshold of similarity below which
        # vertices will be removed in the simplification
        # process
#path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
        # the nearest pixel when certain criteria are met. When False,
        # paths will never be snapped.
#path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
        # randomness).
        # *scale* is the amplitude of the wiggle
        # perpendicular to the line (in pixels). *length*
        # is the length of the wiggle along the line (in
        # pixels). *randomness* is the factor by which
        # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
#savefig.dpi      : 100 # figure dots per inch
#savefig.facecolor : white # figure facecolor when saving
#savefig.edgecolor : white # figure edgecolor when saving
#savefig.format   : png # png, ps, pdf, svg
#savefig.bbox     : standard # 'tight' or 'standard'.
        # 'tight' is incompatible with pipe-based animation
        # backends but will workd with temporary file based ones:
        # e.g. setting animation.writer to ffmpeg will not work,
        # use ffmpeg_file instead
#savefig.pad_inches : 0.1 # Padding to be used when bbox is set to 'tight'
#savefig.jpeg_quality: 95 # when a jpeg is saved, the default quality parameter.
#savefig.directory : ~ # default directory in savefig dialog box,
        # leave empty to always use current working directory
#savefig.transparent : False # setting that controls whether figures are saved with a
        # transparent background by default

# tk backend params
#tk.window_focus : False # Maintain shell focus for TkAgg

# ps backend params
#ps.papersize : letter # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm : False # use of afm fonts, results in small files
#ps.usedistiller : False # can be: None, ghostscript or xpdf

```

```

# Experimental: may produce smaller files.
# xpdf intended for production of publication quality files,
# but requires ghostscript, xpdf and ps2eps
#ps.distiller.res : 6000 # dpi
#ps.fonttype : 3 # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
#pdf.compression : 6 # integer from 0 to 9
# 0 disables compression (good for debugging)
#pdf.fonttype : 3 # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True # write raster image data directly into the svg file
#svg.image_noscale : False # suppress scaling of raster data embedded in SVG
#svg.fonttype : 'path' # How to handle SVG fonts:
# 'none': Assume fonts are installed on the machine where the SVG will be viewed.
# 'path': Embed characters as paths -- supported by most SVG renderers
# 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
# Opera and Safari

# docstring params
#docstring.hardcopy = False # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
#verbose.level : silent # one of silent, helpful, debug, debug-annoying
#verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : ")

#keymap.fullscreen : f # toggling

```

```
#keymap.home : h, r, home      # home or reset mnemonic
#keymap.back : left, c, backspace # forward / backward keys to enable
#keymap.forward : right, v     # left handed quick navigation
#keymap.pan : p                 # pan mnemonic
#keymap.zoom : o               # zoom mnemonic
#keymap.save : s               # saving current figure
#keymap.quit : ctrl+w, cmd+w   # close the current figure
#keymap.grid : g               # switching on/off a grid in current axes
#keymap.yscale : l            # toggle scaling of y-axes ('log'/'linear')
#keymap.xscale : L, k         # toggle scaling of x-axes ('log'/'linear')
#keymap.all_axes : a          # enable all axes
```

```
# Control location of examples data files
```

```
#examples.directory : " # directory to look in for custom installation
```

```
###ANIMATION settings
```

```
#animation.html : 'none'      # How to display the animation as HTML in
                              # the IPython notebook. 'html5' uses
                              # HTML5 video tag.
```

```
#animation.writer : ffmpeg    # MovieWriter 'backend' to use
```

```
#animation.codec : mpeg4      # Codec to use for writing movie
```

```
#animation.bitrate: -1       # Controls size/quality tradeoff for movie.
                              # -1 implies let utility auto-determine
```

```
#animation.frame_format: 'png' # Controls frame format used by temp files
```

```
#animation.ffmpeg_path: 'ffmpeg' # Path to ffmpeg binary. Without full path
                              # $PATH is searched
```

```
#animation.ffmpeg_args: "    # Additional arguments to pass to ffmpeg
```

```
#animation.avconv_path: 'avconv' # Path to avconv binary. Without full path
                              # $PATH is searched
```

```
#animation.avconv_args: "    # Additional arguments to pass to avconv
```

```
#animation.mencoder_path: 'mencoder'
```

```
# Path to mencoder binary. Without full path
# $PATH is searched
```

```
#animation.mencoder_args: "   # Additional arguments to pass to mencoder
```

```
#animation.convert_path: 'convert' # Path to ImageMagick's convert binary.
```

```
# On Windows use the full path since convert
# is also the name of a system tool.
```

```
P6
```

```
# CREATOR: The GIMP's PNM Filter Version 1.0
```

```
16 16
```

```
255
```

```
P6
```

```
24 24
```

```
255
```

```
p$"hfgsecVx#2Dy00usjOw!<Q=X5Lw/.us$`Mw!<R>Y4Q/K#;w/.us-s:O@[6R0L&B"?!:w/.usw<O>Xy'-56>,2!9"?>
```

```
;w/.ghx=O=Uhs116"?;w/.s>R@[f!#n11!8"?!:w/.u=RE^d !i//"?#;w/.uAVJbh-/f+*)A"?#;w.-
```

```
w!DYKdg)+vo^XJe))+A"?2I{--
```

```
AUIa??mqqj}OD4y43&9mGP@?p|~wn~eUkhn$"v41r}tc|cLyozscxaJyozraq]Fyozr`{zjVByozscptoap<youtfehcXI6
```

ynp|~tdY]XN@.ynp|~scMPME7(ynn~D=P8P8P8O6O5a?kebleeeeeeeeNsy  
P6  
24 24  
255  
TOpekR~a2^yoTeLZ|`ZV~|mUi[lY^VTIT\_p^LFDB:zg\XSNGx~oifb]Xytnlhdx  
P6  
24 24  
255  
k<(v\$V"s\*{Je&u#})(&#r){9&,01.,)&#m{X@&1;AB=4-)%!lzS{"}.<IQSLAd+#lz%u\*4DSacXX(\$|#us  
{,6GWkq]S\$ l|s>\$+3CR^aVMt9&w&\*.:jzqs\$(+/{izr!%(+~yJz!s"%'  
|wk{,w!#\_~z  
t(tK !! &  
{ vnK u  
|  
xsk{2x  
{  
xt  
n=+zD}z wso!m}[0]~~}  
|z  
xurol{QG~yyy  
x vuspo,s6yD0vrqr)z-vS^A><}P  
P6  
# CREATOR: The GIMP's PNM Filter Version 1.0  
16 16  
255  
hIu=-Kx\*C[?e?e?e?e?e?e?e4So\*C[?e?e)BZ)BZ)BZ)BZ-G`\*C[?e\*C[  
P6  
# CREATOR: The GIMP's PNM Filter Version 1.0  
16 16  
255  
-=\*C[?e\*C[?e?e\*C[?e?e?e\*C[?e)BZ?e)BZ?e)BZ?e)BZ?e)BZhluKx4So-G`  
P6  
# CREATOR: The GIMP's PNM Filter Version 1.0  
16 16  
255  
[PP  
\_LyIt?e?e?e?e?e?e?e\*e\*C[Eo7Yx7Yx7Yx7Yx7Yx?e?e\*C[?e\*C[\*C[  
P6  
# CREATOR: The GIMP's PNM Filter Version 1.0  
16 16  
255  
&cJ~uhtgtgsf=DaR.rTi|9El\_4Odu7MXM+Γ r6>XN+H\_qtaV/sssΓ rOAI rov}Γ rl}}Γ r/FVI r0B3IZ-  
<XmΓ r.CSzp(5ZpΓ rKx!6H\_y,:ZpΓ rYcmOdunnnzzz-9I>O\1@  
P6  
24 24  
255  
k<(v\$V"s\*{Je&u#})(&#r){9&,01.,)&#m{X@&1;AB=4-)%!lzS{"}.<IQSLTh+#lz%u\*4DSac^8(\$|#us {,6GWkj8}\$  
l|s>\$+3CR^7(\$t9&w&\*.:Uzqs\$(+Pt{izr!%(s~yJz!s"% 7u







```
grid.linewidth: 1.3
lines.linewidth: 2.275
patch.linewidth: 0.39
lines.markersize: 9.1
lines.markeredgewidth: 0

xtick.major.width: 1.3
ytick.major.width: 1.3
xtick.minor.width: 0.65
ytick.minor.width: 0.65

xtick.major.pad: 9.1
ytick.major.pad: 9.1
#Author: Cameron Davidson-Pilon, replicated styles from FiveThirtyEight.com
# See https://www.dataorigami.net/blogs/fivethirtyeight-mpl
```

```
lines.linewidth: 4
lines.solid_capstyle: butt
```

```
legend.fancybox: true
```

```
axes.prop_cycle: cycler('color', ['30a2da', 'fc4f30', 'e5ae38', '6d904f', '8b8b8b'])
axes.facecolor: f0f0f0
axes.labelsize: large
axes.axisbelow: true
axes.grid: true
axes.edgecolor: f0f0f0
axes.linewidth: 3.0
axes.titlesize: x-large
```

```
patch.edgecolor: f0f0f0
patch.linewidth: 0.5
```

```
svg.fonttype: path
```

```
grid.linestyle: -
grid.linewidth: 1.0
grid.color: cbcacb
```

```
xtick.major.size: 0
xtick.minor.size: 0
ytick.major.size: 0
ytick.minor.size: 0
```

```
font.size: 14.0
```

```
savefig.edgecolor: f0f0f0
```

```
savefig.facecolor: f0f0f0

figure.subplot.left: 0.08
figure.subplot.right: 0.95
figure.subplot.bottom: 0.07
figure.facecolor: f0f0f0
# Seaborn pastel palette
axes.prop_cycle: cycler('color', ['92C6FF', '97F0AA', 'FF9F9A', 'D0BBFF', 'FFFEA3', 'B0E0E6'])
# Seaborn notebook context
figure.figsize: 8.0, 5.5
axes.labelsize: 11
axes.titlesize: 12
xtick.labelsize: 10
ytick.labelsize: 10
legend.fontsize: 10

grid.linewidth: 1
lines.linewidth: 1.75
patch.linewidth: .3
lines.markersize: 7
lines.markeredgewidth: 0

xtick.major.width: 1
ytick.major.width: 1
xtick.minor.width: .5
ytick.minor.width: .5

xtick.major.pad: 7
ytick.major.pad: 7
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round
```

```
# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 6
ytick.major.size: 6
xtick.minor.size: 3
ytick.minor.size: 3
#Author: Cameron Davidson-Pilon, original styles from Bayesian Methods for Hackers
# https://github.com/CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers/

lines.linewidth : 2.0

patch.linewidth: 0.5
patch.facecolor: blue
patch.edgecolor: eeeee
patch.antialiased: True

text.hinting_factor : 8

mathtext.fontset : cm

axes.facecolor: eeeee
axes.edgecolor: bcbcb
axes.grid : True
axes.titlesize: x-large
axes.labelsize: large
axes.prop_cycle: cycler('color', ['348ABD', 'A60628', '7A68A6', '467821', 'D55E00', 'CC79A7', '56B4E9', '009E73',
'F0E442', '0072B2'])

legend.fancybox: True
# Seaborn paper context
figure.figsize: 6.4, 4.4
axes.labelsize: 8.8
axes.titlesize: 9.6
xtick.labelsize: 8
ytick.labelsize: 8
legend.fontsize: 8

grid.linewidth: 0.8
lines.linewidth: 1.4
patch.linewidth: 0.24
lines.markersize: 5.6
lines.markeredgewidth: 0
```

```

xtick.major.width: 0.8
ytick.major.width: 0.8
xtick.minor.width: 0.4
ytick.minor.width: 0.4

xtick.major.pad: 5.6
ytick.major.pad: 5.6
# Seaborn bright palette
axes.prop_cycle: cycler('color', ['003FFF', '03ED3A', 'E8000B', '8A2BE2', 'FFC400', '00D7FF'])
# Seaborn deep palette
axes.prop_cycle: cycler('color', ['4C72B0', '55A868', 'C44E52', '8172B2', 'CCB974', '64B5CD'])
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn whitegrid parameters
axes.grid: True
axes.facecolor: white
axes.edgecolor: .8
axes.linewidth: 1
grid.color: .8
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
### Classic matplotlib plotting style as of v1.5

### LINES
# See http://matplotlib.org/api/artist\_api.html#module-matplotlib.lines for more
# information on line properties.
lines.linewidth : 1.0 # line width in points

```

```
lines.linestyle : - # solid line
lines.color : b # has no affect on plot(); see axes.prop_cycle
lines.marker : None # the default marker
lines.markeredgewidth : 0.5 # the line width around the marker symbol
lines.markersize : 6 # markersize, in points
lines.dash_joinstyle : round # miter|round|bevel
lines.dash_capstyle : butt # butt|round|projecting
lines.solid_joinstyle : round # miter|round|bevel
lines.solid_capstyle : projecting # butt|round|projecting
lines.antialiased : True # render lines in antialiased (no jaggies)
```

### ### Marker props

```
markers.fillstyle: full
```

### ### PATCHES

```
# Patches are graphical objects that fill 2D space, like polygons or
# circles. See
# http://matplotlib.org/api/artist\_api.html#module-matplotlib.patches
# information on patch properties
patch.linewidth : 1.0 # edge width in points
patch.facecolor : b
patch.edgecolor : k
patch.antialiased : True # render patches in antialiased (no jaggies)
```

### ### FONT

```
#
# font properties used by text.Text. See
# http://matplotlib.org/api/font\_manager\_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# The font.weight property has effectively 13 values: normal, bold,
```

```

# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
font.family      : sans-serif
font.style       : normal
font.variant     : normal
font.weight      : normal
font.stretch     : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
font.size        : 12.0
font.serif       : Bitstream Vera Serif, DejaVu Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC
Bookman, Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
font.sans-serif: Bitstream Vera Sans, DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant
Garde, sans-serif
font.cursive     : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy     : Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace   : Bitstream Vera Sans Mono, DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New,
Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See
# http://matplotlib.org/api/artist\_api.html#module-matplotlib.text for more
# information on text properties

text.color       : k

### LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex
text.usetex      : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the

```

```

# matplotlib mailing list
text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.
text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings
text.latex.preview : False

text.dvipnghack : None # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.
text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
mathtext.cal : cursive
mathtext.rm : serif
mathtext.tt : monospace

```



```

mathtext.it : serif:italic
mathtext.bf : serif:bold
mathtext.sf : sans\serif
mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
                    # 'stixsans' or 'custom'
mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
                              # fonts when a symbol can not be found in one of
                              # the custom math fonts.

mathtext.default : it # The default font to use for math.
                   # Can be any of the LaTeX font names, including
                   # the special name "regular" for the same font
                   # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default font sizes for tick labels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
axes.hold      : True # whether to clear the axes by default on
axes.facecolor : w    # axes background color
axes.edgecolor : k    # axes edge color
axes.linewidth : 1.0 # edge linewidth
axes.grid      : False # display grid or not
axes.grid.which : major
axes.grid.axis : both
axes.titlesize : large # fontsize of the axes title
axes.titleweight : normal # font weight for axes title
axes.labelsize : medium # fontsize of the x any y labels
axes.labelpad   : 5.0 # space between label and axis
axes.labelweight : normal # weight of the x and y labels
axes.labelcolor : k
axes.axisbelow  : False # whether axis gridlines and ticks are below
                      # the axes elements (lines, text, etc)

axes.formatter.limits : -7, 7 # use scientific notation if log10
                          # of the axis range is smaller than the
                          # first or larger than the second
axes.formatter.use_locale : False # When True, format tick labels
                                  # according to the user's locale.
                                  # For example, use ',' as a decimal
                                  # separator in the fr_FR locale.
axes.formatter.use_mathtext : False # When True, use mathtext for scientific
                                    # notation.
axes.formatter.useoffset : True # If True, the tick label formatter
                                # will default to labeling ticks relative
                                # to an offset when the data range is very
                                # small compared to the minimum absolute
                                # value of the data.

```

```

axes.unicode_minus : True # use unicode for the minus symbol
                        # rather than hyphen. See
                        # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
axes.prop_cycle : cycler('color', 'bgrcmyk')
                        # color cycle for plot lines
                        # as list of string colorspecs:
                        # single letter, long name, or
                        # web-style hex
axes.xmargin : 0 # x margin. See `axes.Axes.margins`
axes.ymargin : 0 # y margin See `axes.Axes.margins`
axes.spines.bottom : True
axes.spines.left : True
axes.spines.right : True
axes.spines.top : True
polaraxes.grid : True # display grid on polar axes
axes3d.grid : True # display grid on 3d axes

```

### ### TICKS

```

# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
xtick.major.size : 4 # major tick size in points
xtick.minor.size : 2 # minor tick size in points
xtick.minor.visible : False
xtick.major.width : 0.5 # major tick width in points
xtick.minor.width : 0.5 # minor tick width in points
xtick.major.pad : 4 # distance to major tick label in points
xtick.minor.pad : 4 # distance to the minor tick label in points
xtick.color : k # color of the tick labels
xtick.labelsize : medium # fontsize of the tick labels
xtick.direction : in # direction: in, out, or inout

ytick.major.size : 4 # major tick size in points
ytick.minor.size : 2 # minor tick size in points
ytick.minor.visible : False
ytick.major.width : 0.5 # major tick width in points
ytick.minor.width : 0.5 # minor tick width in points
ytick.major.pad : 4 # distance to major tick label in points
ytick.minor.pad : 4 # distance to the minor tick label in points
ytick.color : k # color of the tick labels
ytick.labelsize : medium # fontsize of the tick labels
ytick.direction : in # direction: in, out, or inout

```

### ### GRIDS

```

grid.color : k # grid color
grid.linestyle : : # dotted
grid.linewidth : 0.5 # in points
grid.alpha : 1.0 # transparency, between 0.0 and 1.0

```

```

### Legend
legend.fancybox : False # if True, use a rounded box for the
                    # legend, else a rectangle
legend.loc      : upper right
legend.isaxes   : True # this option is internally ignored
legend.numpoints : 2 # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4 # border whitespace in fontsize units
legend.markerscale : 1.0 # the relative size of legend markers vs. original
# the following dimensions are in axes coords
legend.labelsing : 0.5 # the vertical space between the legend entries in fraction of fontsize
legend.handlelength : 2. # the length of the legend lines in fraction of fontsize
legend.handleheight : 0.7 # the height of the legend handle in fraction of fontsize
legend.handletextpad : 0.8 # the space between the legend line and legend text in fraction of fontsize
legend.borderaxespac : 0.5 # the border between the axes and legend edge in fraction of fontsize
legend.columnspacing : 2. # the border between the axes and legend edge in fraction of fontsize
legend.shadow       : False
legend.frameon      : True # whether or not to draw a frame around legend
legend.framealpha   : None # opacity of legend frame
legend.scatterpoints : 3 # number of scatter points
legend.facecolor    : inherit # legend background color (when None inherits from axes.facecolor)
legend.edgecolor    : inherit # legend edge color (when None inherits from axes.facecolor)

```

### ### FIGURE

```

# See http://matplotlib.org/api/figure\_api.html#matplotlib.figure.Figure
figure.titlesize : medium # size of the figure title
figure.titleweight : normal # weight of the figure title
figure.figsize : 8, 6 # figure size in inches
figure.dpi : 80 # figure dots per inch
figure.facecolor : 0.75 # figure facecolor; 0.75 is scalar gray
figure.edgecolor : w # figure edgecolor
figure.autolayout : False # When True, automatically adjust subplot
                        # parameters to make the plot fit the figure
figure.max_open_warning : 20 # The maximum number of figures to open through
                        # the pyplot interface before emitting a warning.
                        # If less than one this feature is disabled.
figure.frameon : True

```

```

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
figure.subplot.left : 0.125 # the left side of the subplots of the figure
figure.subplot.right : 0.9 # the right side of the subplots of the figure
figure.subplot.bottom : 0.1 # the bottom of the subplots of the figure
figure.subplot.top : 0.9 # the top of the subplots of the figure
figure.subplot.wspace : 0.2 # the amount of width reserved for blank space between subplots

```

figure.subplot.hspace : 0.2 # the amount of height reserved for white space between subplots

### ### IMAGES

image.aspect : equal # equal | auto | a number  
image.interpolation : bilinear # see help(imshow) for options  
image.cmap : jet # gray | jet etc...  
image.lut : 256 # the size of the colormap lookup table  
image.origin : upper # lower | upper  
image.resample : False  
image.composite\_image : True

### ### CONTOUR PLOTS

contour.negative\_linestyle : dashed # dashed | solid  
contour.corner\_mask : True

# errorbar props  
errorbar.capsize: 3

### ### Boxplots

boxplot.bootstrap: None  
boxplot.boxprops.color: b  
boxplot.boxprops.linestyle: -  
boxplot.boxprops.linewidth: 1.0  
boxplot.capprops.color: k  
boxplot.capprops.linestyle: -  
boxplot.capprops.linewidth: 1.0  
boxplot.flierprops.color: b  
boxplot.flierprops.linestyle: -  
boxplot.flierprops.linewidth: 1.0  
boxplot.flierprops.marker: +  
boxplot.flierprops.markeredgecolor: k  
boxplot.flierprops.markerfacecolor: b  
boxplot.flierprops.markersize: 6.0  
boxplot.meanline: False  
boxplot.meanprops.color: r  
boxplot.meanprops.linestyle: -  
boxplot.meanprops.linewidth: 1.0  
boxplot.medianprops.color: r  
boxplot.medianprops.linestyle: -  
boxplot.medianprops.linewidth: 1.0  
boxplot.notch: False  
boxplot.patchartist: False  
boxplot.showbox: True  
boxplot.showcaps: True  
boxplot.showfliers: True  
boxplot.showmeans: False  
boxplot.vertical: True  
boxplot.whiskerprops.color: b

```

boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10
agg.path.chunksize : 0      # 0 to disable; values in the range
                            # 10000 to 100000 can improve speed slightly
                            # and prevent an Agg rendering failure
                            # when plotting very large data sets,
                            # especially if they are very gappy.
                            # It may cause minor artifacts, though.
                            # A value of 20000 is probably a good
                            # starting point.

### SAVING FIGURES
path.simplify : True # When True, simplify paths by removing "invisible"
                   # points to reduce file size and increase rendering
                   # speed
path.simplify_threshold : 0.11111111111111111
                   # The threshold of similarity below which
                   # vertices will be removed in the simplification
                   # process
path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
                # the nearest pixel when certain criteria are met. When False,
                # paths will never be snapped.
path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
                  # randomness).
                  # *scale* is the amplitude of the wiggle
                  # perpendicular to the line (in pixels). *length*
                  # is the length of the wiggle along the line (in
                  # pixels). *randomness* is the factor by which
                  # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
savefig.dpi      : 100  # figure dots per inch
savefig.facecolor : w   # figure facecolor when saving
savefig.edgecolor : w   # figure edgecolor when saving
savefig.format   : png  # png, ps, pdf, svg
savefig.bbox     : standard # 'tight' or 'standard'.
                  # 'tight' is incompatible with pipe-based animation
                  # backends but will workd with temporary file based ones:
                  # e.g. setting animation.writer to ffmpeg will not work,
                  # use ffmpeg_file instead
savefig.pad_inches : 0.1 # Padding to be used when bbox is set to 'tight'
savefig.jpeg_quality: 95 # when a jpeg is saved, the default quality parameter.
savefig.directory : ~   # default directory in savefig dialog box,

```

```

                # leave empty to always use current working directory
savefig.transparent : False # setting that controls whether figures are saved with a
                # transparent background by default
savefig.frameon : True
savefig.orientation : portrait

nbgg.transparent: True

# tk backend params
tk.window_focus  : False # Maintain shell focus for TkAgg

# ps backend params
ps.papersize     : letter # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm        : False  # use of afm fonts, results in small files
ps.usedistiller  : False  # can be: None, ghostscript or xpdf
                    # Experimental: may produce smaller files.
                    # xpdf intended for production of publication quality files,
                    # but requires ghostscript, xpdf and ps2eps
ps.distiller.res : 6000   # dpi
ps.fonttype      : 3      # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression  : 6 # integer from 0 to 9
                    # 0 disables compression (good for debugging)
pdf.fonttype     : 3      # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor : False
pdf.use14corefonts : False

# pgf backend params
pgf.debug       : False
pgf.texsystem   : xelatex
pgf.rcfonts     : True
pgf.preamble    :

# svg backend params
svg.image_inline : True   # write raster image data directly into the svg file
svg.image_noscale : False # suppress scaling of raster data embedded in SVG
svg.fonttype     : path   # How to handle SVG fonts:
# 'none': Assume fonts are installed on the machine where the SVG will be viewed.
# 'path': Embed characters as paths -- supported by most SVG renderers
# 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
#           Opera and Safari

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",

```

```

# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
verbose.level : silent # one of silent, helpful, debug, debug-annoying
verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : ")

keymap.fullscreen : f, ctrl+f # toggling
keymap.home : h, r, home # home or reset mnemonic
keymap.back : left, c, backspace # forward / backward keys to enable
keymap.forward : right, v # left handed quick navigation
keymap.pan : p # pan mnemonic
keymap.zoom : o # zoom mnemonic
keymap.save : s, ctrl+s # saving current figure
keymap.quit : ctrl+w, cmd+w # close the current figure
keymap.grid : g # switching on/off a grid in current axes
keymap.yscale : l # toggle scaling of y-axes ('log'/'linear')
keymap.xscale : k, L # toggle scaling of x-axes ('log'/'linear')
keymap.all_axes : a # enable all axes

toolbar: toolbar2

###ANIMATION settings
animation.writer : ffmpeg # MovieWriter 'backend' to use
animation.codec : mpeg4 # Codec to use for writing movie
animation.bitrate: -1 # Controls size/quality tradeoff for movie.
# -1 implies let utility auto-determine
animation.frame_format: png # Controls frame format used by temp files
animation.ffmpeg_path: ffmpeg # Path to ffmpeg binary. Without full path
# $PATH is searched
animation.ffmpeg_args: # Additional arguments to pass to ffmpeg
animation.avconv_path: avconv # Path to avconv binary. Without full path
# $PATH is searched
animation.avconv_args: # Additional arguments to pass to avconv
animation.mencoder_path: mencoder

```

```
        # Path to mencoder binary. Without full path
        # $PATH is searched
animation.mencoder_args:      # Additional arguments to pass to mencoder
animation.convert_path: convert # Path to ImageMagick's convert binary.
        # On Windows use the full path since convert
        # is also the name of a system tool.

animation.convert_args:
animation.html: none
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
# Set all colors to grayscale
# Note: strings of float values are interpreted by matplotlib as gray values.

lines.color: black
patch.facecolor: gray
patch.edgecolor: black

text.color: black
```



```
axes.facecolor: white
axes.edgecolor: black
axes.labelcolor: black
# black to light gray
axes.prop_cycle: cycler('color', ['0.00', '0.40', '0.60', '0.70'])

xtick.color: black
ytick.color: black

grid.color: black

figure.facecolor: 0.75
figure.edgecolor: white

image.cmap: gray

savefig.facecolor: white
savefig.edgecolor: white
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn dark parameters
axes.grid: False
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
```

```

# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn darkgrid parameters
axes.grid: True
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
# Seaborn dark palette
axes.prop_cycle: cycler('color', ['001C7F', '017517', '8C0900', '7600A1', 'B8860B', '006374'])
# Seaborn muted palette
axes.prop_cycle: cycler('color', ['4878CF', '6ACC65', 'D65F5F', 'B47CC7', 'C4AD66', '77BEDB'])
# Set black background default line colors to white.

lines.color: white
patch.edgecolor: white

text.color: white

axes.facecolor: black
axes.edgecolor: white
axes.labelcolor: white
axes.prop_cycle: cycler('color', ['8dd3c7', 'feffb3', 'bfbbd9', 'fa8174', '81b1d2', 'fdb462', 'b3de69', 'bc82bd', 'cceb4', 'ffed6f'])

xtick.color: white

```

ytick.color: white

grid.color: white

figure.facecolor: black

figure.edgecolor: black

savefig.facecolor: black

savefig.edgecolor: black

# Seaborn poster context

figure.figsize: 12.8, 8.8

axes.labelsize: 17.6

axes.titlesize: 19.2

xtick.labelsize: 16

ytick.labelsize: 16

legend.fontsize: 16

grid.linewidth: 1.6

lines.linewidth: 2.8

patch.linewidth: 0.48

lines.markersize: 11.2

lines.markeredgewidth: 0

xtick.major.width: 1.6

ytick.major.width: 1.6

xtick.minor.width: 0.8

ytick.minor.width: 0.8

xtick.major.pad: 11.2

ytick.major.pad: 11.2

# from <http://www.huynh.com/posts/sane-color-scheme-for-matplotlib/>

patch.linewidth: 0.5

patch.facecolor: 348ABD # blue

patch.edgecolor: EEEEEEE

patch.antialiased: True

font.size: 10.0

axes.facecolor: E5E5E5

axes.edgecolor: white

axes.linewidth: 1

axes.grid: True

axes.titlesize: x-large

axes.labelsize: large

axes.labelcolor: 555555

axes.axisbelow: True # grid/ticks are below elements (e.g., lines, text)

axes.prop\_cycle:ycler('color', ['E24A33', '348ABD', '988ED5', '777777', 'FBC15E', '8EBA42', 'FFB5B8'])

# E24A33 : red  
# 348ABD : blue  
# 988ED5 : purple  
# 777777 : gray  
# FBC15E : yellow  
# 8EBA42 : green  
# FFB5B8 : pink

xtick.color: 555555

xtick.direction: out

ytick.color: 555555

ytick.direction: out

grid.color: white

grid.linestyle: - # solid line

figure.facecolor: white

figure.edgecolor: 0.50

Year,Agriculture,Architecture,Art and Performance,Biology,Business,Communications and Journalism,Computer Science,Education,Engineering,English,Foreign Languages,Health Professions,Math and Statistics,Physical Sciences,Psychology,Public Administration,Social Sciences and History

1970,4.22979798,11.92100539,59.7,29.08836297,9.064438975,35.3,13.6,74.53532758,0.8,65.57092343,73.8,77.1,38,13.8,44.4,68.4,36.8

1971,5.452796685,12.00310559,59.9,29.39440285,9.503186594,35.5,13.6,74.14920369,1,64.55648516,73.9,75.5,39,14.9,46.2,65.5,36.2

1972,7.42071022,13.21459351,60.4,29.81022105,10.5589621,36.6,14.9,73.55451996,1.2,63.6642632,74.6,76.9,40.2,14.8,47.6,62.6,36.1

1973,9.653602412,14.7916134,60.2,31.14791477,12.80460152,38.4,16.4,73.50181443,1.6,62.94150212,74.9,77.4,40.9,16.5,50.4,64.3,36.4

1974,14.07462346,17.44468758,61.9,32.99618284,16.20485038,40.5,18.9,73.33681143,2.2,62.41341209,75.3,77.9,41.8,18.2,52.6,66.1,37.3

1975,18.33316153,19.13404767,60.9,34.44990213,19.68624931,41.5,19.8,72.80185448,3.2,61.64720641,75.78.9,40.7,19.1,54.5,63,37.7

1976,22.25276005,21.39449143,61.3,36.07287146,23.4300375,44.3,23.9,72.16652471,4.5,62.14819377,74.4,79.2,41.5,20,56.9,65.6,39.2

1977,24.6401766,23.74054054,62,38.33138629,27.16342715,46.9,25.7,72.45639481,6.8,62.72306675,74.3,80.5,41.1,21.3,59,69.3,40.5

1978,27.14619175,25.84923973,62.5,40.11249564,30.52751868,49.9,28.1,73.19282134,8.4,63.61912216,74.3,81.9,41.6,22.5,61.3,71.5,41.8

1979,29.63336549,27.77047744,63.2,42.06555109,33.62163381,52.3,30.2,73.82114234,9.4,65.08838972,74.2,82.3,42.3,23.7,63.3,73.3,43.6

1980,30.75938956,28.08038075,63.4,43.99925716,36.76572529,54.7,32.5,74.98103152,10.3,65.28413007,74.1,83.5,42.8,24.6,65.1,74.6,44.2

1981,31.31865519,29.84169408,63.3,45.24951206,39.26622984,56.4,34.8,75.84512345,11.6,65.83832154,73.9,84.1,43.2,25.7,66.9,74.7,44.6

1982,32.63666364,34.81624758,63.1,45.96733794,41.94937335,58,36.3,75.84364914,12.4,65.84735212,72.7,84.4,

44,27.3,67.5,76.8,44.6  
1983,31.6353471,35.82625735,62.4,46.71313451,43.54206966,58.6,37.1,75.95060123,13.1,65.91837999,71.8,84.6,  
44.3,27.6,67.9,76.1,44.1  
1984,31.09294748,35.45308311,62.1,47.66908276,45.12403027,59.1,36.8,75.86911601,13.5,65.74986233,72.1,85.  
1,46.2,28,68.2,75.9,44.1  
1985,31.3796588,36.13334795,61.8,47.9098841,45.747782,59,35.7,75.92343971,13.5,65.79819852,70.8,85.3,46.5,  
27.5,69,75,43.8  
1986,31.19871923,37.24022346,62.1,48.30067763,46.53291505,60,34.7,76.14301516,13.9,65.98256091,71.2,85.7,  
46.7,28.4,69,75.7,44  
1987,31.48642948,38.73067535,61.7,50.20987789,46.69046648,60.2,32.4,76.96309168,14,66.70603055,72,85.5,46  
.5,30.4,70.1,76.4,43.9  
1988,31.08508746,39.3989071,61.7,50.09981147,46.7648277,60.4,30.8,77.62766177,13.9,67.14449816,72.3,85.2,4  
6.2,29.7,70.9,75.6,44.4  
1989,31.6124031,39.09653994,62,50.77471585,46.7815648,60.5,29.9,78.11191872,14.1,67.01707156,72.4,84.6,46.  
2,31.3,71.6,76,44.2  
1990,32.70344407,40.82404662,62.6,50.81809432,47.20085084,60.8,29.4,78.86685859,14.1,66.92190193,71.2,83.  
9,47.3,31.6,72.6,77.6,45.1  
1991,34.71183749,33.67988118,62.1,51.46880537,47.22432481,60.8,28.7,78.99124597,14,66.24147465,71.1,83.5,  
47,32.6,73.2,78.2,45.5  
1992,33.93165961,35.20235628,61,51.34974154,47.21939541,59.7,28.2,78.43518191,14.5,65.62245655,71,83,47.4  
,32.6,73.2,77.3,45.8  
1993,34.94683208,35.77715877,60.2,51.12484404,47.63933161,58.7,28.5,77.26731199,14.9,65.73095014,70,82.4,  
46.4,33.6,73.1,78,46.1  
1994,36.03267447,34.43353129,59.4,52.2462176,47.98392441,58.1,28.5,75.81493264,15.7,65.64197772,69.1,81.8,  
47,34.8,72.9,78.8,46.8  
1995,36.84480747,36.06321839,59.2,52.59940342,48.57318101,58.8,27.5,75.12525621,16.2,65.93694921,69.6,81.  
5,46.1,35.9,73,78.8,47.9  
1996,38.96977475,35.9264854,58.6,53.78988011,48.6473926,58.7,27.1,75.03519921,16.7,66.43777883,69.7,81.3,4  
6.4,37.3,73.9,79.8,48.7  
1997,40.68568483,35.10193413,58.7,54.99946903,48.56105033,60,26.8,75.1637013,17,66.78635548,70,81.9,47,38  
.3,74.4,81,49.2  
1998,41.91240333,37.59854457,59.1,56.35124789,49.2585152,60,27,75.48616027,17.8,67.2554484,70.1,82.1,48.3,  
39.7,75.1,81.3,50.5  
1999,42.88720191,38.63152919,59.2,58.22882288,49.81020815,61.2,28.1,75.83816206,18.6,67.82022113,70.9,83.  
5,47.8,40.2,76.5,81.1,51.2  
2000,45.05776637,40.02358491,59.2,59.38985737,49.80361649,61.9,27.7,76.69214284,18.4,68.36599498,70.9,83.  
5,48.2,41,77.5,81.1,51.8  
2001,45.86601517,40.69028156,59.4,60.71233149,50.27514494,63,27.6,77.37522931,19,68.57852029,71.2,85.1,47  
,42.2,77.5,80.9,51.7  
2002,47.13465821,41.13295053,60.9,61.8951284,50.5523346,63.7,27,78.64424394,18.7,68.82995959,70.5,85.8,45.  
7,41.1,77.7,81.3,51.5  
2003,47.93518721,42.75854266,61.1,62.1694558,50.34559774,64.6,25.1,78.54494815,18.8,68.89448726,70.6,86.5,  
46,41.7,77.8,81.5,50.9  
2004,47.88714025,43.46649345,61.3,61.91458697,49.95089449,64.2,22.2,78.65074774,18.2,68.45473436,70.8,86.  
5,44.7,42.1,77.8,80.7,50.5  
2005,47.67275409,43.10036784,61.4,61.50098432,49.79185139,63.4,20.6,79.06712173,17.9,68.57122114,69.9,86,  
45.1,41.6,77.5,81.2,50  
2006,46.79029957,44.49933107,61.6,60.17284465,49.21091439,63,18.6,78.68630551,16.8,68.29759443,69.6,85.9,

44.1,40.8,77.4,81.2,49.8  
2007,47.60502633,43.10045895,61.4,59.41199314,49.00045935,62.5,17.6,78.72141311,16.8,67.87492278,70.2,85.  
4,44.1,40.7,77.1,82.1,49.3  
2008,47.570834,42.71173041,60.7,59.30576517,48.88802678,62.4,17.8,79.19632674,16.5,67.59402834,70.2,85.2,4  
3.3,40.7,77.2,81.7,49.4  
2009,48.66722357,43.34892051,61,58.48958333,48.84047414,62.8,18.1,79.5329087,16.8,67.96979204,69.3,85.1,4  
3.3,40.7,77.1,82,49.4  
2010,48.73004227,42.06672091,61.3,59.01025521,48.75798769,62.5,17.6,79.61862451,17.2,67.92810557,69,85,43  
.1,40.2,77,81.7,49.3  
2011,50.03718193,42.7734375,61.2,58.7423969,48.18041792,62.2,18.2,79.43281184,17.5,68.42673015,69.5,84.8,4  
3.1,40.1,76.7,81.9,49.2

0 0 0

1 1 1

2 4 8

3 9 27

4 16 64

5 25 125

6 36 216

7 49 343

8 64 512

9 81 729

10 100 1000

clientid,date,weekdays,gains,prices,up

0,2008-04-30,Wed,-0.52458192906686452,7791404.0091921333,False

1,2008-05-01,Thu,0.076191536201738269,3167180.7366340165,True

2,2008-05-02,Fri,-0.86850970062880861,9589766.9613829032,False

3,2008-05-03,Sat,-0.42701083852713395,8949415.1867596991,False

4,2008-05-04,Sun,0.2532553652693274,937163.44375252665,True

5,2008-05-05,Mon,-0.68151636911081892,949579.88022264629,False

6,2008-05-06,Tue,0.0071911579626532168,7268426.906552773,True

7,2008-05-07,Wed,0.67449747200412147,7517014.782897247,True

8,2008-05-08,Thu,-1.1841008656818983,1920959.5423492221,False

9,2008-05-09,Fri,-1.5803692595811152,8456240.6198725495,False

!"### !"!! ! " !! ! ! # ! !

!""! ! # !

! !

!""##!!

!#"\$(#&#&'&

"

#!"\$!\$#+,+)&&(\$# #!

#

!& &))/(+\*').-\*(')\*(## #

!

!"#"+++++.)54.)-..((%"&\$

!#\$+..) +/.4;5,\*011.+,\*(&! !

"-.+(',(464\*-/273333--)'(\$

!+,)'&()+10/)+02:9;=84.210,"

&&'\$(\*/20\*-129>>@;77<<77/#!"

##!#\*--4901222;?AB@9;>?A?4.1.\$!"

""#(/5249;=<>8320//0/#"#!

#+-28:55424:?FIGD@DDLH<=@4\*!&!#

%1:DJTdpv|{rmb^VMKHEGD@;/&"%)244554349?HMOLGMOVVLKF;520,&\$""

)8L]t 8EVj}wl`QA5"|ePE=2\$%,,-310203>FNRNQXXX^QHGA>:75/.+#! !

&5La|Ak?^p  
tbP>81\$a8xcH7&

%('(\*..310:?ENJRWQTXPEIFGD;:780.&!)

!+@d \9`(C^jw~sdVRJ;2[+|. `J6\$  
%!\$&+.33089<EJKNFNQKFHLLLDCB=:1,\$

":Z/vF@VlsT6Wc.aC/  
&' -245413?JHIGKSLLNPTUUQRIA92.\$"!  
)?bj\KruV)Ry.T7&

#&,25502<BBCHKQOMUSW^[VJB93,&##!#"

,Dm8H+\_yQ\$Uc\;+  
!!%23345:::<@HKLNVWT[[\[\[UMD<7/++#'

\$BrNpTZ0xQ(  
)/,45:4--0;@CKSTLSWSX[ZSMGB9:5+!"!%!

#7[H,sy<1]\_8! \*/% '\*363,\*399ENLHKPMTVRTSQOIF?3-&#"



\*O!r,v=~}O+

%\*" "&.024,069:@JHKGJLRQOQTTZSQKC<3\*#!

;d^Fip8PY/

%)'2534:;=BHQMKFKMNNPQWZ\[WPI=2"&)#

+J~%

IDw d;

#(% .3479??FMQSLMJLNOPNTUZ\\_YTJ?1++/%

-VY@kl\*+q@%

"\$'-268==@ENKIKJKIMOOQKRRYZ]YQJ?463(!!

6^wv<=Q@u: (1367;<<FF@@EGLNMTQMJJLMWVWTSKDB7\*()"

!"

!Bw(!

eUgCr4#)1259<=@<79>BEJMMRHKHHINOPWTSOH;23.(!!!"

#BRQ/hpDi6)/.88<<5239=?GGJKIPHKKHLOQTUNE@94\*\*

\$KhYno3X) +2979544264>CBEEJOKJMDGFIRTRPJ=5/+) !

'T~

oZH#(.5669760/.8B>AEHNKPOEBBCMRTULB734/+%)!

\$Q:> #48:<@IV\_hrtwysme[TJB@9+g3x>!\*+257;64.+7;;BGCLPSQFFBDIORTQJC@<55/)

#")!UOS".5CSg|+29>>0#

{dN>3 J

\j.&+48=? :2039>OKGJOROKJFGKOQSSPMJB>=5)#" \$&\$#

"U%\e.Jn:Tg+:>8#dI, jS8'8?J%/5?B?8349HQPJLHOOKHIGGHLOQPRLJFA82'\$ ""!!

O&gr2Y>^8Zv+(bD@J@jE"qS;!z7"/;C@ :58;CEMMFGMNKJLHBCCMJMPNK@?80%"\$&

"#%Chy'DeAq%M^hy#KH\*Ok\_!p>b>vO4!<z]'/=<786926@HEHKLOPOIECDGKCGHLFC?<4/\*,)""#!)%"\$ \$

9Yw1Ik=m=h9m>")Iiw`2rJ>?SceecD#

e,~Y<a5:

"/4763-,:>BFDGNMLHEHEEFIEC@E?<8;642-'

' "(.,"\$"7xEv"8Vq<y'Rgbexrn|ywrks1\*ra0b|U-2wi&

(.46721478@ @GLJIHIJD@FLMCA??5988;6/\*%\$!!"("'+\*\*((%"!#at/e

II!V!NdB(P){qfkpi+R`[G~O

UtK\*/^I +6>:56855:IKOJORPMD@FLOG@C=<489B;51/\*% \$)\*',,%'&)'#EB\ -KzMt5\_f<\*EFJJ:8K] teKJ]2]

w'

)8D;77<;6>IVNRT[YQJHGJMJFJG;98=GG@A:1' %&!/,+20++)\*.{=  
,Fk7h  
:E?C^Ps,..>4"  
.:3CMD0\$,ETP8\_\$qGKfC  
"7:634;:6=INPP[[^VSNKFJMUXNBBAALJKKH7+\$'-(\*/00673/)&% &XxG

J{1\_/HLWlrg[eqnX?k]jP.Jmvku\*!D  
)IQZo,)n<~F kh %1103;97:CCDIT\_a`WVJFIV`cYTMFBJOHMF<1)  
""\*72,+022374/(%##8\$d)L}H'@]`hod:a?47Pm>2br\_Vu(FaG70)(0=EGYt-,9VMI 8R;  
)3:76@@<7BMZ^^aXUMSZbgc]UHDJICDFB:,&  
"%1744-\*2/,/)&##"!T`+3ZQ-T\J:)ASeXMGC@Gv\_|om:A?V4(  
#+4CP\_p^U}F^Z%"1236AB757HPV^bd\_]YY^eaZSLIID@>CB>6-&

!##%'0631-(0.)\*.0\$%+orTd'H[eZ\KfODR<kmhfP2J 0Hoc.&-  
8<DN^}Nlyf[C!,&/12<:438?KNXacmh`W^^[TTPLE@;@<@?>4/&"

%,-\*\*)/432.,/0-0062\*&>B% @)}0KYm|XnfK@:.&\$"6p9HKL9  
ZOGr7,QJ&  
%4MoCn

kf\$-RfD#,23226:BJKSV`kib]V[USPRJD:>===<=883,#\$ '.3/,./7::550402/32\$ Jo>  
4t+\*WtZ7tH\*  
(R);uD\$

.?\_T(!PO%  
dT(%-3137>GLPRPWdifYTQWRTPMCB=A>>87880./)!!%.4..49=A?=61/4-++&%dnE>p2K)  
'@Y~-X@"  
&8Pv#V+KN)+T's7)5448@DMTTKKWbgaRTUWUXMKJMFC?:7979:6,!!  
!&\*1857;>AA=;5.+0/\*!+q\$`B:{~bJ\$@Z}h(t9;!

'3Ku&ZMvc.y\$F"  
\$DH//1<=DJPPJMM[fgZTVY\_YWRXVOJE?9129<1-!!  
!  
##\*08<<:<<=>580+/12( 2% Dr\_tXFGK\swVjX )>Vn|\*OU2".X'w6!

-Hx0n;yi  
fuA  
ApR\*/==AILOLJNT^c]YVY`dcc\URKB7.,32-+,\$! !!

&,2<?<=9=>9533/32+)<=  
<g!"x}\@\*'5=CB"R!  
[7##9e %5<RXclqrAeIr4

2VO^4I[" m]17=BEHMKNMNT]\\\\_]bql`VVSOG=3-00+40\*!&"!

!+15>@?B?=@78678:2,?J6;'Z6fB&&<<#;f,]^\$.Ci,gk<iE;#h0

'GyI&eSE9 j64=BIJLPOLPVY\`^[ mk^VPPQPF:322574.,/)\$

!! &15<?FFED@A??:9><8IK:/tB=b:(?)#s;r%Q}

\*NImSQ{9 W)

\*BIS7U|C9]|<8@JJOSOPSTV[\_]UZ`cYPIMVUKA;37=:6-444( !"\$#,4<AELMD=?>=:367LC/&hn?|sP^tR' #+3uA

Q!?!b6k1TdPpH

'=j:u(o{Q@&?>GLOUWXX[]^Y\SWXQEFIMOGF=?A?364;4-!""#&07=BMTN@4867<7/1K:"KQ

|~\*ZpG.NS( d"Dy

D&IU;T3-D!

!9bAx<epzp .0E?ENPV\\_`cb]XWTSNGDCEFIGBA?CC;73752)&# !"'

&/+)03?BJNK=945;;;9J(&t+x2<-UJ7.+/:.(G9

)O

\$(EK";UiD#

0Rx/2?AC@Nld>=.4-DAHLS^\_ac\_[YZWQJGFJJNMF?==C>95220+)-%#"\$!#\$#

/67223?DEJC@=7:A@BQaN}cb/c(BQ`lsnI& }=

M,Q{7f-4,+[A%

)Er`\*

6Oh=y" ""#~BCEPV]]Z[V\_^[TPNPSabZLA<>?=52/++\*+\*~)\*# !

!!(4?A@8;BKKJFGHGFJHncO>p3\_I38

6{ }P/n0

bJ<;BU0Hw)W<%

+VM)4KzVL

uHDHPTZZZ[]`ZUUUYensjXIDA@>80+)++&+11'&#% "#.=CHECBGOYXSMUTUMRqx?4Q|=)Hmy<5i-

&0DXq:"[=,

MQ,"#9XE|vCAGMOV]W]\_YTRR]ksxm[LCEBC>30/0\*(4+\*)\$! \$"

#(2CCJEGMU`cXRQXSKd\<Z(Kn2|J;,v-q1

\*7Olrbd@2"

LI3?\*

((-R#q>jBCAIS[YY\VULMVdopcQDCDJIG<74/-,2..//""#"#\$"!\$\*-8AKHJIKQZ`a[OFHFT.|9FdzSqNLe8gxyJ/y;

/<RsB]u)yF7(

O!c&!38\*0cxqV<=GTZUWZZSIFNWciYIA>EIKIB;433930253\*%#\$# !#%+6@EIKJQVZZZXXOF<H|P]>d|b.H  
9b?oMwC\$

&27CQI+\_WT[B.

%V V'=B8.0?Ya[s^E

wI=JWZWWW[SNIEIW\VI>=>GJLG?79==829:6,\$"! !!)\*+;DDHKMV`\_\_[]\SI\_wV 9BplHtF1X&6nI+

\$/?OT\iK6kYJAtR:+

%9h2Y

+<99>KW\_bn|2vZR:DHVVYTTQWRPC=IPOKCEDEKMK>:<B=468:74)"%!"! (-631<HGPPW\ggfdidb\{0

Bjn.X+\*Edh\\_ihQ2

\$-6?Rdrts}%^nN PgC(&

%3DRgBm !+4C\}p^SVFS,kLMRUUOTUVNFCEFMNQXXTSQJ;8AA<96469770-(#% !  
)I>A>CKX^dcfbgdfifaY^O6|Ndy4qH\$7]u^QS\_d[; #\*0AP\_oXqs+(,v&N6%

/If}/Ou-\_{ @!+IRP  
]IOOUVWXSOIKKIS`ijhcZK@>D@=:7,08<99.+(! #\*9AKJNR^jqof [\[ZUXneES%\_~B19  
-Gdxui[OMX\_bI)

\$\*2;AUhxGIZ=[\*7aV5

%8Tt  
AdWvYICIP&|rkGSJIQW\XXMPOMHGQ`kopl`WJHA:::/04695/+\*\$"!\*4@KKUTZ^hsvf]VRTSTbw+m%\s5q?0  
IY^[QRWahW9 %1<GQTe}  
5o#P7'u{b>/(<

&0AYq +X|R~ZGH0T;kKJOUWZSUROH?@GW\be\_a\_XMB974324/2646043/&!#  
!/2:JMLU\_\_acuofZVUYX[r|CC8bJw@)BT[W[\_gmfl' &-4?LZbdrGKS No\F.  
(4=N\_jvz"NrGf|aP?]uRHKKLJKRVLC?9>IPPJNX[XUH@:6393/.7::>:>7,\$ "  
(3>AMNQYbfegim^]VZ]^( "ZAuv-N%(@O[bhowsX4

(2:CNYclwLueL`\_^1  
)=GVagmptzuljmvCs  
4gwMA q;'mCGCFBAORKFD;>DLEADHKNNMD=5548/,/8;>=<4&% ! ")8@ILRP[cmoklfd`^^c\n].j5pYt8-  
@Xhot}mI\* .:FN[dhrqmDiN\n@e4

%?Ykx|tropsuqkgfjv?w\*i tHF),2Q?EBADIRKLDB<DHJDCA<>EDE?92741\*-5555<;6-'&

#'.47=LTP[[kuzwunliegaa%C4jDh9&5Ogs{a5

&2AQ[hnlEa  
oz3115\"

4][qsxwqic`k{hYaQE-n([SAX?){MKB@>ALKNII<89DJLHA.;7==<89380.237388;91)!  
#/4A>BPY\\m{ }xqhehcogQEtr-P,#,D]p}G  
.,HXblopu )hc(%m)v19#I}rtzyzmb\]iw{ {ysfTA8:BL\z&y'w%! }mHfC\*  
oA=>CJNKMJJE23<EPPHA=:264:54-127:8>;?=82\$!

\*1<CGIY\_\_cqp`cfi("bI{hJ\$\$4Le|h3

#1@K[gnry~&FZ8

\_<GPP.AKKA9/# 3\~vw}|mb\_bkpi^OC1#1MvZ y Q"jIW@<DOOLMWK?59CQTRNIB7.67;,&)524:6<<=6.)  
#3<AHIVZchlu|wtg`Xdtk.qN{hc9#  
":RqR  
+6DQ\_hkry{\*3jp:M\%  
/Jajgd]SHCARwwld`b^O:&  
\$N1d\_n\X:NCMQNHQ[VF@9@NT]b\_XE=6:4-\$),+.,.18341+\$!,8AHPYcfriu||~yuph^]]2%Mc`,  
6`m.\*2;GWaidhnsmlBQ5f5a\*/Hamjbba\_co{zgYNI@24fn?5nidLQVLLP\SKC=@ISdqj^LE;63.\*(&+\*)12014/,"\$-  
:@ILP^fqu{wwrxxvrlg]gyk:\*A]a],

HC!!17?N]ef^^ck|mUilDI7'D`haRDBDI]fJ7/)

@v%kw  
rhy\_RQSSNV]WLH<9<J[lpnjaPKEC6//.)03.-0533.(

!#/5BKOTZgs{ssmmpxwwlf^z7BWuoY)

+g\~#2<GWdje^}go{\IfGuMU)?[fYC2\$ &@y20'cB% Hdamfj]LTUSX]XTK?34<KU^dcb\_YSI@54-  
(11/042571#&'!(0;EQQY\_ky{{pmjqxupj\b\_o^.-Kd%X!

J{xD&#/>IVcjfdlwz}rLZQ\_\_\_/R"?]bP4!

'hMr`@~Z='  
;Kbf  
qRQTUZYZXP@<65:DKNRXXZULD7\*~\*,(.,01276/+&\$

%+/6ANNTXgt~ytlppqn`[h5~Mo>e#

,ab7#!->JP{fgju} dX)mVYBNilP/ jjoD^1 FBVYa6iMRSTSUXNKC76;AHLNQWVXUF2(\*)%\*(+/31..-\$

%/5ALPOO^h{ }rqoknkcX7[T9#X{ ]|0

?yT3#\*;DGNZbkw{7+q{HfY}~y\2\*xqg;s? P#K XWzWSUSONPTS75>KR][[\_\VI;0/,,'" &)\*154,+  
&.=EQQMWev}|xstnlkk`e.}#[C

Y}J+(3<;AOZerx&&?Cq^8

D

pq>yI\$Y6M[NO;

xUXVTRSZWK:6?K`fhheb[UMC=2/-%#&295750)\$

#04<KRTP\t{ }ytpmlle\_t5mZ1[.tg=/2648CM[ix;1xZ4

'c%h|IDtH\*

"gLZ?=EdXZ[Z^cbUG<>RZfhkf^WPIA960) &.5;@?44,"

\*6?=EUUYds~~ytqlomdZ\SV

Er1

NN821--2<L^v~y{ ?gs~~{m\*sY8<2TRK8oA\$  
+vd i-opv\*Ai\_;\`c^biibSDEN]`ef\_XSDBA?70) %/6;9;:1'''

)6=@GO^ionr{ xsrqok^bBI,#su7  
\*uW?61-%&+9Mi{spkm=j\_C;>EWtj'aG((Z',)=0  
6{Zewl!4wfdedffc\OENZ\_a\_WTH?@GD>5,'#\$+.9;93.+5

&\*2;AMXbsrhfq~rurrlcYwF=3rJJ3 T[=4/-#!->Vp}|qlifj'ztQZ Fqq5R9  
8zQL6TAKR`zlojkjd`c^RHKRY\XRKGEIID;91(" % .5:6760\*

"18;FR^ggmifszurxsg[Yz  
6|%a BgKbQ 1~mC30.!(3DXhplhcdv2H3^ax v)>~!w\_g~F& N{V( p\_\*n^Ph~]g  
2pofbaa^QHJJORJJNNOH>631' %09>?@?<5&

\*7BLER`\_dcjs{}vywsf[b ,mT;^g-&

bS720,##)0>N^immkw8nZ!iKNd\$[>4sfPZ?,fwS\*  
4Er}IMgr=Twomie\_XVPLHDJGGMRRQH>540# &5CIKIGD7'  
\*5BNMSTYa\fis|yt}{mdWuVu  
![ Q;oyVh[@lC72.(/\*0>PYeq%mMWEL`  
#19MZ9)bNUwD =]yZ0?';O=Keb%M  
:+%rrpf\_\[ZSJLIGGJMKJG<::3.\*\$,8DMSRMD8)

%4>IQVX]\_\ggmfjqjmwzk][x

DE.x:B'pO;654423DZgu(c)|NIYq'aPVIP'  
#Pe= BW;{| BARbW8|slgde^SPJMLGDDAA?@<894)##% "%!\$-:BGLUOF6,\$

-7ANRX\_biieph\_]bijtyuk\_h 4{ \*pnkf7T^=7=ENQP`z(1zVZn/\_SWet{yb@  
.uQ"\_gBeCEP`L"UKF{vpppdTILRQKDB @=?B;8<8\*\$\*+,,.6?@AGPSB71,#

!+/=HNX[\hlnodcZV\_fqtungd\$Uo"(\WYmI/  
?% }KAKhip>zcV\_iljkdN3  
?|j>"<P:->|j@Y  
}yurtmUKQRQMMMGEHB>;>;1.))+/39@DBALURH<83'

)0<CLXZZ]]gpnevWVZ]hltpjacy FD:4ug6)! \*kKw`s Qre[fpn`[VK9\*!

TyU&BWg\h6<Qrm%3HFJzrqwo`TIMLQUVUUQLA>::83/\*-7>>HMKKOYXPH>2+!

"\*6AGPVY\Z]\_Iti`ZYbdieie]b

h+pl)H-("],1wll{rz[ag\gqIXJD=61-\*ga3

c\$E?QeuXkzmlvkwUGAKPSVZ^`WM=6387116FJJT[VPKU]UI?80+"

&09CLRVW[^bghnrf`\_\_hbc]a`s)S4

b\*4r18%!R\$^shb`jYY~ujz]Nd`kpcJ8421241(:~I&6e=eGGWfh3;;;Pjhqtk[GAF LQRS`d^ZJ853114@IQTY\UJLUX  
RID:4.%

%3>FKUY^`\_`agjlhffed]a\^bbCUHGHI=mS,!={]nZab]jeu}y{~pHSparx~Uux<|civsY<)%,,3841,2Vp/M.|ZEEUh[w  
niggh]NFFPSSSY`][RB7426<AHMRTROLLPQOPLJ>4-'

+7?ELU^ba^`gffbgkd\PW^ch "z trR7H`

/mA9D('0JvX=UmVclu~Nmp0sfr|mL/&\*02239Kz]~\$iJzK>Ogu<B9NWi^`f UMN RWTSVVWYYPB;8:AGKLMO  
NMNMJHNV[\TLB;5,#

!

(28@IQ]c`a]`ccecffhgXRNV^g%

98DE>%

"YW7%9XB1UxX`krrw

Hgr3snxzbD)"\$\*\*1BaF:\$X?J\_mom[^eh]PNPTQRUQSUI>:@HOSUUURPOKHP]dc\KHG;.&

'29FR[cdd[]dhcadjeaa\PLONI)VLa3q&bj7!H@;()2@YBAy6\*Llfrumipz+=ZzAsowvaF+

-I}3#,<f

:h;8R}@9 1Nw`\_gf]ULMLOVTSNQVPA:JSUX^[VTPLJOX`bWKIKA3\*

\$/=N\bdc^\_]bfecfh\_YYVMKOLs2tdP-U^5"9wD\*U@968Dc`]/%|=z|pie{B4BsHzprp\_G+-^DU@j]>

\{@-Hu{^

miadaa\RJKPWZOKPUOE;AOTX`\c`WRNGFGJSZQKMNE:0\$

!&,4BS\_ba^cfdbbdhidVORUOLNKg

!%p22T5'.fTazUE5/.>p09zG(\$/Z'"uni[o9Y\$ZMqkdV@(  
.m/ed?J?j]IQR3Ew\_Z\ae\RORURLEFQQEBGOZZ]bedZTKDA?AHPSPPLD8+

\$07=IV^a\_bjmlc`eji[OKNTUOGK)MTF-%

%TJ^E3\*\$)IX/!\$9U6}lgbXy^d

6Tvi]N:'

)c5]K{,(OTindtq8JaY^di`VPPRRKAGNPI=COPV\ejgaXPGGB@HNQOKJC4\*"

#\*7AHR\aa]akmhaahkaRHJPVXVJU=3lw>\$;!z)`E6/&%9bpAOT>z\_WR["pbKkZG4\$

O#F+W!(0jkkVTr[cjf\_RKQX]VLISTGA@BKQ[ipjcYPQPIFJOMJEKJB1.)!



&0=KS[\_`]\dkkdbfid[LFHTYZYQi  
St9\*61x=%%jd-\A60% ,Gsc7#}bOLwoviAx\_E-  
P9E"-yo  
xzuKfdhfYQOLVbaXVZ[RG@=EO]koj^TNRRONPNJKPTLA1\*!\$\*4BLW\_]ZZ]dkkefid^WRJKU^]VV]2HW\*\$  
^&t?, MK%N6-( 2X\6Df{X`BCW?gB&

!i06<  
#tp{ G)\*evcf)XTMEKW\_b`cd^OB?GR[hmeVHHJMPTSOONQUYSC3(%!

-9DMY\_\Z\`djlhmdYTRNR[b^WZ+jR?|3u@+!72!I-  
Cq|Y<)  
#CnB2CyB!  
) A.s7\$nr/R0=fYXTVNA@KXccglf\KKOT\_hi^NA@CGOORTOQT][SI:+% \$0?NU\_]`egjjilj\_TQSW[adbZgF  
&c3u=( '%H+7hZE2  
b D7i{VX I  
8)Jd. +ovH>b/ w8zsTQXWRJBDR\_aeqsiYLNU\cfXHFCACHMSVQNV[^WM@/!\$

&5ES\`\_\_beiliggjeYPTXZ\\_fh]v\_]=+ "  
y /O\*2i]I.NrX<X@H|RNN  
H:GS\$3z sY#P"j"1URX][TKFOY]bo~u]OLMOVXVRNIAAHNTVSPT\^UA5,\$

!)8KW`a`ehikmmcafaTNT\ZW\db]f pVs 6 jF/&e8c- 3ojL+  
F s+r?CnrDLIb=;w@:yfh=g&en=qdHR\]YOJPUW`nyxeSJGBGQTSSNEBGNRXYWV^c`UK=2\*!

"0AR\_b`ahjjlmka[\[SRy[YY^ZZY'BUJ"%R \*U5)\$  
S05  
<|P,  
<15#F48Z^&?  
. {5'e1 BtL|+u}J9 {JIVWRQONPU\jomeXMCACJNPPOKFGHP`\`]\\_gaYMD8,"

\*;J\ge] ehjkje^VTUQRWXX[acV^ GORk`Qq>BYh>,&DL'+aMu=V05=K  
Wx5,4TZ{7E!R)L@|1yy?dTINNNKLPMMV\_fb\_XNGACJPMNSLGFKQ\_fb]^\dYND</"  
!!"!'2ARbgaY]hkjie\_ZROPNKPVTV`eXlcHI{~uRnG.% 8k=% ,PS}[6  
-k >X#&>h]m,

.e{>  
]C]NdEuGJPIFIMOLKTXXSROGBDKJOTUOGJNYaa`WXXUNGA3(  
(

\$/9DVab[Ybkome`^XPKJLKNRQR\d^Iaup{0X.#-jPITq74\*pE#\*U%?&OQ}:

A^."li"71liLB[QHNNHIOOJDGMLORNFCFFKOYXLFMZ[\_]ZVTRNLKE?2%

#0?NZaa[[hqsnc^^[RGFLJHLRVchg="=RXV9Sk7" \$d@'BEe9 3O\*

;+U<Qf1

#QG"(Nddq35m;WkOUROMMNIFDDGMWUMEDEHZ`YHCHOSX[YVYXSKFB@@8\*!

\$.AWcdd\]issmb[\TIEGDBFQ^notB(A\$;J9HG'

&Q/f3b\* #C\_kr@\$/Os0~

f>\$.i3/#k,qcx7c\$):J[Z\XROOMIFFIOWXRND?IUb\I=DIJOSQRTQL?79;5+#

"(2E)hig`glmjd`][VKDDEAEP`pq"]zZ?4cZ0:f8\$&>t0vd\*G2W{r

MH3;Sv\*k7}[D4/0<dP"??1(Q5f[Gm`sW[[UQRSPJJOVYZXNG@ET\_YGCMLFIMMKHLMD6..21\*

"!!&2<N`jmiejkjllg\_WRI>@IGFN\_kmrnknaFF\Y3#'/S}uz d!(Cj5<[DEY{

#D637FY^]SUmI;X^?Y#D>GUQTPLQYYPJOV^[UPLJIRZRFHRQEDLNECDE=/&(01%

!" \*<O[egkignqrtrlarJE@CGGHSchnT'A;prmxXqO66|tcO:0Ar

yE4:VMBu[SYn<4noqX'

% }Hi(ga,cfILGFKSYVIL[\_XRONNLMTOEFMKEGPOC<BB8)""..'

#5K\fgiighnqswzthZLCDGHHHKWjlx\$\$S8MZ+]y2@rF!@cpcF-"E{ {VBJf|0Z?raX^wi'OS\$:OzzrJC-Tu@

1:NGHA?HLRPOX\TORLLNQOEDMNDDMLA:@E6"%-.\*\$! !+@WfgedhikoqptvpbSJJJKLKM0\jmIamn;tl\_,

9anP(3e~pWYot VU1{rr1Q

Q.|x{mC hNs

5O)`dKIB::GQUXZUPRVWTPQRLEITSIGMF:8<:0"!\*31!

#"#&5L\_hfabgkmrqpppi]QPWVQJKPS\gr=,>Xh!WH8bi?&Pxsz:wDs[:~}oE<w8\[%)\*RME=8@OYZYVUW[YT

SPNJHNVUPOMF;01,% " #\*05-\$

!

"\$0@R`efehjmrsolia[Z^a\SJLNS[fzE`]2&\$z2:ec4>p(bt~0PFrqpoFc>!s %

mp/m[NQE=?LRVUT^b[SOJIIHNX^[QI@2,% "\$'076.)&

'6JZcfjmmkjkrkec\_^[bc^TOOQU\_eP8jf,e2dyd?fb0

7q& |UF2"XjKD~o)=0xq%(iv<uPSMD@CFHNWcg^NFEKLIIN\_lhUJ>0\$)% "\$%.:886-%

!

-=M[fnqpmkilqqicdc^Z]^YTTQS[^o=m6dRX=Z6 /Qzv?\$My#-b'C\*Lf<cH~?}\*#

`E%v^q;ioWSSIA:=@JZfg\RGEKMMMS`pm\K?3)()\$##\$,9<88/\$

"0AM^mvunjkklongfhg^WURSUVQU^d4] !Aguwi}w /Htg6)+,:R~htNJe\Z#~}?Yj-wsNe-

kYZOE=<AKXddaYQHIMPONXgj[LC;3--+'(.5:93,!

#0AQbpxumjjkkkicdeb[UOKLTXVYdjU%8Qi|kHw\_gR\$-NgY[bu/c0U@cRny3km ~FKwL\_

]fG`YHDBFSZ^ddZPMOOLQ]bYLHD834/+/-/7870&

!

&4DSgrrnlmlkigdba\YWNIXUX[bhk

-=GRn[. eL<|9(\*\*Bsy~qps],GL8D3:i=m~XT`GY^

n`[LEFECFNydiaYTRPPPOTYZRNF:7;854146771/

#/=K\kmghehnpnhecbb)\OJLRW^cesN".37Cd#}

BZ\$

673:Yn`YZdiglox;C\*c,M):-dBHqe3D`%GC\*YTGJHFEDJTcfb\WTTTOKPXXSMIB=:9676<:40+'!',9JZfmhb^ck

qrkfegb^b\OIKNT\_fcJ

)..0<MvDI8

2=<?Mr{yjUB3+1@R\_ky41BS()yR\*Q(

&R&VJGEMOKFIW\cda[UWVPPRUTRRMD<<<<=8:<;<61. '#

'2BUgola]`chqwphfgc\Y`\RKMPTbfl \$+,+)+5Mr/m }

4EKPgtjT>-3Lc{ 1!~8Vx(i\*q/y!\*

~nM3@?gHE@MWVIKT^bhh`ZY[WUSUVTUNB===:<>:<;972,#

!(2C[msh[\ gmrtneceb][][VRTV]giDv(-1\*"#MEet 'GZ\anrk^I4"

,N{-Fk.m% {dYz)p!s~\$pg]SB

ge>L?:IWZPOQZbggfa]X[^ZWY[WOBAA@=>=849;AA=5/ '4G^mqh^\_ekkmje\_`ab^\\[Z[Z[giju")/62%

Mo|W n

B\_d^\_YF/ 5p\$HV&e&h'S!tcck

+kKr.uS>RL W=9EUZUPT\dec\_[[^aa^]]ZPHCB?B?:767;=A?94-\$ "

"):Pcjiobejjkjc^^a\VXYX[``bhgm,

!/54-\_(evSl

6Vb[SQJ6

U\$!~^u.o!.i|f"kTE`,b|S#~

0mPoP+!nX

5qB==KQQT[hlg`YY^cd[V``\_WNF??A?;:;<=>83-# # # \$-@Ykhcafhkmmjnb\_eaWOQTX[ddccc~"

"(-452(!uE`p<u+ .L][OC:+

<|Mdem'ot8iA3J5m.cdB#4l\_/\*/&

eI85=FLR^jhdc`^c]UT[a]^c[H;:>>;98>>;>?:5\*

#! '4H' mhbekmnmh`YahdVQRXY\_hic\_c %&./75\*3P  
[LΓe+C,'  
,Pc\C\*  
>UR@IVm.xI9B0uP7Y'=wr`OnIE  
Z987@DHO`feige^\_`^[WY]`e\_K725;<97;;=AB?6,  
"  
"\*<QcheckrplifaYYdjdVPU^\_bija\pL (\*.22+S0)+R3\*aD0!  
+O\_I <STMUf)z)-5A[~(&P0Oc> b AqJ4;x\$  
SA!}MG=>A@FUcjkkhfdeb^UU`b]J9009>:8:;?BDE=" % !\$,AXggdhtupg\_ZYY\ejbRPYbaefga[U\$)+132)  
1AI>=xM6,

&JW7:[aF)##-T\$K\*\*<lZ@;,Y!dE@T:U  
\QIC=<@LWfmmhcdcaXQSZ][WK?34<A>;,AFFFH@2\$

"" !#/E\_icakuslc^ZZ[bijaUT^cdbacah  
\$+686.! \$igd2&V]@,"&FX>  
&:JY]K)#ZWN  
CA ah{X3(:e6Z#iKXibDaH

\$\$#"IVSG<8<EQalkca`a[SNRX\VSNE@;=@A@DLRMGE=4'  
!&  
&\$! "(7Oce)^hnikidb^afoqoc\Z`bbcac`&Tt "(29:6)  
P5R/5o  
kC2\*!(G\_T-)AVc`Q>(   
8rPmm&>73o 3\_xsc\f3@cP\$Q-5C %\$ ""!pYyZ^Q@;<CO\_gfabb]UTRT[[]XRRNHF?:?GPWYSJE@1& \*+'  
'\$! "-D[ga[^ijgiihlqzymb^]`\_\_bdfg '\$&-5882#?[pGE7wJ4)!&Hjp[NYde]L5#=\$=UPi\_57lOa':F[L "V"&Rhfh~@  
!\$r[fdNAAHKS`hfb^XWXWV\_]YVSOIA:=FMWZQHD=3\$

"-1\$ %2I^hbachgeimlnq{yi\Y`eb\adhr?"\*+,/1657-:@[= =&&b~L8+ 9[zh^UE5\*!!%\*'\*/;]CAva G[m9y+jt3  
2b\*>?oXSdYu=% ! # \$ ! # !  
"dfj]PJJISbfc^WTY\ZZ\ZYURKC??ABFOOGCC@5\*!!  
\*+"  
(9M^eeedgeegijpv}zuf\Yfjd^df?)#\*.,/01033,\$!+=C);.BQ;\*  
@\_wx`J@.'"&1:?:@FHL`@\$QFU^7>i%  
@y@\_9'+BckLs>+%\$ " "%"!#"tZy\_j`VPLE?K\ddbXQS[``ZXXYUK?:AGFGIHABDC=1\*%  
!#& !"/CS`fecglldcfpxzob)\_ff^Y^fj )+,04301562(#">!53x% W.S;-!  
9^w}yr]K>:74)+3;?KRRYpXc?|{3\$E ODg \*N\_  
nB!  
6i{^FrA."#)#\$! !!!('\$!\_[WNKJG?EXfkbTLQZ^\_aZXXZI=:@FHLKD>?ABA=3)!  
#

#####6N`c`b\_lespgagnyrda^]\W^bkzM\$)04743595-"?0 1f%i< B2\$  
!=[f`ZZUNFGF>+##"\$9FCFWx/llq~9Z1>nE]wh1]~N+7y[8 pC-!#.,(\$ " ""  
#('!)IOHDFEECHTdjdvLLW\_\_[XTQKG>>@GIOLF@::BHG@1" " % \*B\ghb\_Y[cpojdkou~vj\_[VV[gild  
%\*.1793330)\*-C"&XR5?qF5'  
5GPSWae`SHC4#-NA2'oh\_du{c`UH/:[K#Vh:j.f1CT'mD/'&,\*\$!#!# !% '\*%

!vk<MFBB>>DIR^fd]SNSZXUSOKJE@>DLPMIIFA<ACCB:>

""&! "6Rdhf\_X\domiimnt{ {rf\VUYcnmm

',0591-.-'%J}A6FkyI6#-?Rcqqk]L=4#V!0BnUNak01C01Sy<e

CxM#I PIP4.,)&! #\$(% "UEBA=>?FQ^cc`[YWUQPQRTUNBAHPQKHJMHHC>@?5%

!(C^fbj)^\^gmkkffipuyuk\VT[^fki")".582\*0/)Syw~c+SR9&&/Gq{ YA5+ XW

\$h4iuQCRGod2(2@@T1d

Ii2-9byErK:0.,("!! \$'\$&"!# \$`JEBCEHV^b]dgf\_VRPQ[\VFBHMNJEDHQOG>:8/\$

0LcbXQU[\_ahki`aitxyodZXU``abx

?d

#".352.24,!,Z'}rt}

QQ8\*a@)"%1TU8/!|JDu 8x@LWGS\_+KPB,,Z>4n &IC/0uxH(rL800/+ "% #%%),)\$

`AvTLBCJQU[cc\Yfrund[VUZ]YRKKNLHA@JPMC?:40\*

&":TcZNP[ `aimi`m}yk`ZY]ca\Z\Y! "\*/.,0022.&1b4)pry >We`tB' %1\[8(mo`WvC8pal\*C{"Y4+<2:f

)P#Mx3|uC"sI721/-)&"!\$'\*/.(\$)\OBCOY[\^a\Zdqwzqg]XVZ][VRPKFKPMDAA=82,#\$, "

'>VaWJHUb`agmjadtthYWY`ff\W\_ '+\*+/.14/)6j0\$zkow

8c7j%-8bV- #X~"e3{8ZjYC'})7{R "M+Ru\$M!ri3|I2454.&

"&')+&#cVKENRTTV][Y]ejormf]YXZY]]YTPNQLHJFB=4+&! !"

)>T[SJN[e`]ekhfjv{ |qeXQT^iicZk\*"\$(+\*/-1496+9s#vchnz=~Wi4T'/BTt{I

&XHa8<\_4{)

h(% cA

)SCx52Sa+N6: ?<2% !#&&#\$'&#HqZRHKORQSZZRRW\_ joojd^VLLU[[XRPTONMLJEC>3+ " "

"\*50

-=QXSLT`[\diilpwxtmaURW]gghdGa

%'+1./127??4?{ q\|i{ \$:d8!ld+3\|}H -o6?c[.><#=#<C6

'[V!,6mx[/c@9@?1'! !&(&#%))&" v6WTONTWQOX\XQWenrokh\_SDER\_aZSOKKMRRLLHFB>7\*!

XY#

!#3EVXSPX\_^[afgejsywoj[VXacddgm]%(,(220237=@;KkPUf#\*I X|<&0jW+

LRza!`)B q

c/ zzU%%(^s4

{%\_mW1

[L88:.# !#&+),(+)&"

YX[TVWRP[c`Z]inknpogTFDSah\_UPNKOTWTKGD?9+ ">\*

!9L\ZTS\ba`fhe\_dt}}rgZZ\_ggcdhs\*,),12024569<RiLOaw

%&81V0,oj7

2'+Q/.pm\_/?>tT`0lei

!\_kX7V664-# ! #!./-.,+% !b\_c^[WRQZcgaaaimrtdVHDN^ZWXVRQV[WPH@:3-\$eejx.|w1

"/BU]^ZY]bbeilhdtd}k]Y\_fjfk|  
&+++00/367639W]BEXnv'+!/p)fh3&f(5xB&

+{ZBx6R{  
;rA-FJq\$:\_'oZ?\*c<880)%!#,240/-(L\$`hc^YVSVckkhgkri^XQFDJRWURTYTRY]^XM@73+&\$ \$!\*<y%V  
\$7L\\_^\bklmjdgpy~th^^ekllmB"&'\*/.-17877@^N:@Tgpx  
\*/,\$-h`q0W\$2L2%

3(7\$7y%x\$C\;W  
<:|PqaC2#vG=?7,'#

")/40--,\$ |u4]dc^^\Ycmmnlfde\_TOLFGGJLJIOUXVV[\YRD:6.%## " !#:u3)t &>S\_\^^^dmqonkcfpyz}wqibfmsqm-  
^v

#'+-,\*,27:=JiM?GP\ir~!\*,-. Rmo\*F  
\_E2)\$

6,I}0sYYgnY2=)]M/v4>\*J!A7BoeI3(ZFA90&#  
#%,2-)' n\bfeie[\eqxth^aZRLIHDEC@BJUXTTXZUNF=72& (\$!@?6)7'  
! +DRXTY\_baenpoljeht}vqmfhnsq!s!##%\*-.\*\$&,4;CVvYGJLSaoz(--  
+"Dkq(3ww`PGB9.)0.1PBvwP?<L\_|GbQqR:Un:S@&J?jJS=/SoLB9.&\$  
!()-./+)&

agikknha[drzxc`YQLJMJDDB>ALXYST\XQLFAA8,!

CYXE "F\$A47>x+

!!\$6GNLOX`dc`dhhkmimzwokeimlp "#%\*.0(

)7<HeVGCCO`lx&043+!>cl"Y|tmf[Zbo#4U@R]rG0'(3D^m&BP=TW=Sa.=HkfUJ?4# UA7/(#

'+.-+,-\*%

!!iefimkfhoxqf YSQSNGCEBBMZ[VWXVNFABB=/'4",'"L0@68\*\1,@HEAMV\_b`[ehjnr}slgeehf{

6d"#(\*-2+\$5?Ou^HEBAN\_hp(@EA<7+=[-

UHBwzHpC)\$@TK1)>YyW[|6V?5UtMC!5QmeYZTB3bC91&!&))))/40(@rmgZX^kokkoxzuh]ZZY\^XKIJGGO

VTSSVOD;<>:0#:{EZ! L4 <.82o2 /DG?=JS\`d`eikosy~ynieddhkgN

"#""),271%2E\~SFKLDM^iv5IMEBC>,@t&C?<~

!:L\ZA

U3

3>1

#-7Nz "mq!q\_(S!%dKCS/0(!

'XyusynUA\*[M7.\$##\$%&\*&"j8rjn\_TU\ZXbnqnopfc\_[cb`caVHEHNMKOSPKB=:5/("C,%K39MaSG

!.?H>5>N[afiqnlx~ytngaadgnw6!.320.-58<:2),@afhuvz5IZb\POF:0)\$-jC \$x&

+CSWNHLG8\*!UA-aW2\*n9KD9%1PsvU,h'?5:

4RkAin?whdJJ]pc1&..4DNOPK>\*-

`hN6(,##\$#&\*&"j8rjn\_TU\ZXbnqnopfc\_[cb`caVHEHNMKOSPKB=:5/("C,%K39MaSG

!.?H>5>N[afiqnlx~ytngaadgnw6!.320.-58<:2),@afhuvz5IZb\POF:0)\$-jC \$x&

R f,ZH7%-@-!;q P

gmtA]0{O7 2HQNWoyZ-

2dx]G2w<& "%)&"&&" "zYvfnfXNMNPWaijkkhc`[[\dfifVA7AMOMOTVJ@<73.'\$(C

7)"L&AanZH&!\$.;IG;7HWejhonknv{upiebcdhmrBj\$06871/26;82,I{/T\_REC?4044(+wIZ2\*W\_\*&pI2'#

!A?)  
.Q'gwh)x7gweJbPB5.):!:\Wb|O#!@fvdN3K&#\*\*)% "" \$)!z(uZfd[IBEJN\fecgifb\VVY[cfZD;@HJJOYWN>374\*\$  
/F4(H'E\_dKE""#3CLF=?R\_lommoojir~ysqghiknmpJ-5::4,,1442-1R!"#+,B/"-302=C25TICwmv,x/wF'  
=TJ)\$AzVupjlahd,Sedh\_XRK:33%%<M[[]kuN38VqbIo6#"# %)\*##  
%.+\${UbgaN@BMR[badjld\_]RHJR^h\_N@?CGIMTYO>436/\$!9I,/Q:-  
J!?'RR;zC#"#6FJ@@HYdlpllnqlhn}~vnjjhknqrtr}+49;1)'-/136>h%7924?2  
% #3B?1+P)(Szm-k;  
Obd?  
>v PTW\_YiBx<]kea^P<\$%9HXh{iKQrqU8\_8'&" %(&&% #)/,  
`TakhUEJY^\_aehd\_\[RIMYcfaSHBDEDJTXTD48<5,"  
>o BFU;/\$ H;MO9{D!"&;ED<>LZflnggpkokn}sihooprsvrx)/31\*&(),/5AX1LQMJMQM>& /AEACqq~&38 QyC

\_rQ(

%O;LXjix,(D)q%rjZ6 6F]p~kX`iO&]<+ \$"%&')\*+(%\$%)  
R^nn\_SZdggjida\_^]c[T[edcaZJEDDEJPWSG=?@;.%I;<NLU9/% Cy>Y[?#E#

9QYW`s RQ!

Oq^6

8[OUju)A&w\3pwA\_wsdllj\_.&#&%&+,-\*% "\$\$RZkqha`egljfabb\_\_ee`cfc\_^YRGCCGKQVVM>?D;0!TPFQER7-"  
" =oBfeH/H!!9@?DIR[iokacryxqwtfehnqtxR)\$\$(0BfCy~wcD )075\*-,@0"Janqqq \$e1

Ald>

)V\$o3

bqY+zlaWS^w>zzxxuQ Y. #%)-,(((#:#PQfpmdbbegdgfeeb`gh^`c[XYWLDGJOV]VH;8>?5-%X)\$=IDS9-  
9d?dL;J# "1;ABLT]dmtlfjxwsz{rjggnopv|z?q%+& %+7U(mp="XhdPCGI;'ayys  
Sdv5\_.yp&

9^<7}jB

p@c2&uxZ%fOGDDJXt;gN~qu^H(! %\*-()-  
+ \$"`WKcqge` daejklmgchi\_UQVWVZXOFGKPYRF;=A;60\*#al53?<L7.&7X5ZYLG0  
!\$2:@BMZentwons}stz~wnjmrmtx{ [  
)+\$%.@o\xD 6Xr|pO@GLE-!LsrrZf'j7}E2t6h!  
8WR5 ,e  
!J2 LNVc:l0c|\_4IG/-6ARi!vtim} }nl  
d'yA\*& %-.),,,\$ecLbqndac^aejosslcfg[KHIPTWTKHILLRWPHIJD:10,'\$qU4=:E4-)  
5~D\*TZMMR"&4==?J\itwsmowzuqs{|xpmtxxw~z6x"&%#)\$FDwVE<Gauu]C;HTJ&\*W~viR+NWSI#:QE,e/tj:  
g#DGT\liFzS0-Kh,MWH-  
k`RN?Lkwk|d8P:[a6&!(+/31,%LzO`ljggia`iqpoqkbe[KHLJLTXNKMLKRWVUSRH8../(  
'&uwEJDD3.)"3k9,abT)VT \*:C@AI]jxxnijqtqv||wtu{~{{yI '\$&#" "(J)6<.zifWKVc^O@;GLA0]ytfm.<L  
6Za"&C+8G=\*  
'#X!6G?w-\$Dq||T4]8,Ow9ZcO\$Z53):d|uWNm7a|6o0x?\$  
(152.'Q\_kiholeboriipnc`b[QNNHHRZQJOPNRZ\XVOE:31/+"#%\$xU]VB0+\*" /W)1ij|6ZQ-  
<EADN]lxwkggjqq{wopz~}ra

+/(##%'(1VX9\`Grq]GAC@:4.33({yqr5drmlwtt"Y!G%8D"5B7+!  
q=  
Hhse:(=fCf@\$  
;b%&\$AA6G.c%)\*@hu\_kIb^H7(c-H\$  
"062.(Zbkiikjfikifjpm\_\`\_UQNGEQURGKRSUXZUJEA<873+&""~Wf`G2)\$#  
)=\*ef[AbR#4=?<FXcqvqgcfghoytkrw }wn  
!140\*%\$&(\*0HwLtKsmJviY;#zutxvqmmicjuAmzsgu  
i|4  
√IfIP37E<0&  
W5w9muF0Q+B]wR7\_2  
":f2I:c\$:\7g{mK&{O&W""031,'  
>dckhhghfegknrvk]W]f]SLKJQXRKLSUUVSLHDA??@:2(! !&P\WA0)!\*S\^Pp] )7:9:H^istja`dejs}{tsu|~wr  
-52+)%(Ao&Kj@noA~fM'ofeike\agc]\guX\zkd7ZGRqp+  
:rj;9FA<3"<%JfB~(iP2  
\*oU?!\*Ide[ @]&  
,8O9\*R~\{rEdA(s2#-  
/+) "g`mojga]^dkqz{l\W\_fcSMNV[ZRMNQWYXTPJE@=AEA6.#%LSGm;/&\$""!(JW\_[{c"!\$.30.9L]fnnbZZ]cm  
z { {xuv} {ty;\$//,.)\$&3Z'Qbt.hs8`?~qfbb`ZX\^XX\ds;mwrnwH;7<(d\*7DLPg0dU[w-o`1 PV?DfCO"3FXbiu.!6hCo  
:aa3bA7!F#)++)"o6j]jstmc[\_]\_ahrqh[V[fdXRX^a]WSVWV^ZRKE@?AD@8+\$'  
ZXHQ;.%!&Tdjeb! \$-1."R^dkh[UUYajv~{yzvuz}uqr)g"\*+  
+&=tEt=6]6yqhac[WRQUZ]\WY\_IIix}z+B"^z:Y\_>|z/?6EY1^8 J\$-6dSW{7 7Io "bFMdu}h!K`eu 8G }gdR`"  
\$()!~Om]jszsmd]]Z^\_b`YX^if[UZ\_^bdaZZZ[[ZTNLKIDA<5\*!!\*jmQ45+ "  
kurvc'04.\$&>S\_fig\X]]\_gq{ }vuvuy~oor#[%"\*)%+PJd7j8zslaVRLDABJTX\\WQOVh&Qr~UN!m1  
?dI\&%8Fe~oB\^%D}K &[7p  
s/,v9}"S0}7EOj"=t-\$hs^lwyvknkZUVZWUXZhokZQSUW`kld\Z[[WXXXTMF>92+(! \*iq["u~<.% "# } wzsg#-  
03.\*2HY`eggaagfehpyxvwqmo?  
)(\$&'\*pQE;x=spssv{znbXLE?/-2:BHQXWPNQWx=h};;"IczJ\*)  
J%\*6DgvO+FnFg4k\*9@E4uKk<SvonvB~rwr#1?q[I5""/y^p]xpk`VVWVQOT]luoXJGKLUchg^]]\_`^^\VKB<62+  
(#!",lWgWcy>6+\$ usrkn %../-0Bwdgeiifgkpkhpyx~uhjc04.(/\*N<k3jRp0|njheefYL<92-  
)#\$',4ANUUUYI&\<CBPX\*JC\$\*2En\_D3% 5Z(kSG)eJ^ \$AgJ`qZX\_iw{jgy-JUZp.GD>5F:  
#%E\_tymaVTWXXVRQS^luo^MJHGIV`b]Z^bdc^[SH>860)\$## .?  
K]LSx=3+% "jxlne ".\*...5Mblmknlnrqkjr|~wy|pp\*:=2\*\*+6d"RSj5^vmga\ZXMA2,,)!  
,8IRTX^\_hFv7%L\$YvN%pV9  
(5NjXM@2&(\*)\$(+,h2tnaA2#X^-.<{@V{C1eOOV[coz{ }xhdgo4>Cb@v}jU0E:  
  
""#  
qgbat{fXUV\^WUTX]hqlbXPIDIS^aaZU[^^[ZWJ;778/\*(%!(U)"Sb?m9o<.\$ b{Zlndn#.4;Ncqspqqswwqkks}y|uv|}  
#56/\*)+Az\$X@y4y>\$UrfA[USH7\*%#&&2?MMQY[as0g\_k7}Z6}cWD2  
!0CdrfXK>5/-02.C~#Ym^P'gyH{NsXk  
6H]b`{aJCGGKV\YddjrzokihR&2W2u^~89  
"#Q?q\_n|xeyX]aa\_] [VYcjk^TNHOVZ[\VMNSXWWTL@:==81\*"/oH=hd2Jg:+!" ZgDqvju&-  
5?Oqcusstutmegpztw}tv5)0."L#Wc?JR&Un^UPLG9) \$#\$>AIQU\_m,b-  
\_]qV@%qZVPC.+>|wvzpaP;/,./25UL]oWNC,nMN  
mC2AKP(eO=59;<=CB;<@CCM]l} }xvvv{  
"PUk)x ;!#9]Zfv|qea^cglke^RP[hje^[VRNMJORQKGMMLOLDAA>50("6[Hmi.5  
[6,% "RQ1xyq!|0;Gufsvvromrpegejs~yru|zuzQ\$-.)&-U/^(CDx(N IVJC?7-\$!)08<CJTbp U} ]xe?-xqo`7u\_[XJ<  
)Hetyxm^PE=<=BW;ydYW`IFpxiF  
w;e0.JDLIM8\*\*00--\*&&--/7HXhsz}|W}{ }\_>!.KXbsulddbdlmleUOXehe\_`ZQG@EIKLFFGFJSVNF@:2,\*#



!;nHfe,(pW2\*%# I>muo~#,7CO[gryxuoqmgeehn~{uv}zy,l#/,'+[&Er>&+]CkRB9/.)%""29ACFSdo|2o9|GekQ  
qfXME:..bvjpsnjtjzpfdr8vo{2OSN>Ld@azT<\*&((!'"%'+9FTboxgN0LG  
!- 4x8^crqhceabdhkq|RZdfcab^VG?DHJIIDFJT[XPEA=4-  
#!;!;u@]d(XU5\*%"C&gsj!\*6EQ\_isxwrmkkfceho}|y{|}J'1,)#-\_.QD3?kM>2+(&' "(++/,69?ELR[|hgHN"hRP\q|N  
r^QQPOKA4.EndghhJA")-\$\_k\_ B3>sS@/"# &)%'4@N\_oz  
dbt3LW =  
ZOdapqjfb[abdqtg^`eeacefc[NGLNKFBKOTVRKDBC=2+";~B`j#;V6(\$;it!#-6CSbkstyxmfecdgfr|lyvy{ \$^&/-  
)&/)RLflc2BpQ@4,&#&\$! \$)07=;;<<<DS\YVba1\_Q~rmZD(  
#5.oa`elv{x~GR(uefhihw1m  
,iN=7RdE6,!#% \$/=K]lvujhm~PMk8k%k,  
P  
;\_i<hYjtqmaY[]\_etzneahc^\_hgd]ZWXXSKABKRSQPMKHJJB8.(!=Ruv  
O7\*!9o!#1;EWemswysjb\_bfgfiryzuomr[6u"--)'0]"MNsY@;9O}^J;-%'(#  
!!./7DIGEB>;AWhfai\_|t~B^MJC1|qw!drJpcfjik3S^ious[vM6%&:RffV@,%"%.7ES^]RJL[z]c|uFQ;R;+!~r.xUcqvoe  
WT\\_hxzpcbe\\_ajke\\_b^[NDBLTRMMMMKIHB<2%D b|wL4(!/q.!&3>M\_jnrxyrjg|gffhkuxxqjbit{J  
-1,(2a"MJ`OFQRD3aIXE5./.)\$###-  
8?HMPIDB>;C\_prprb&fqCa9#]|\%ykhkkt'7BLYgJZ<%\$9JE9!)3>:532;TEtF{Y1"N<5r6pgWapzteZTX\_hw}qc`\_  
\_imia\_]\_b\_WHACNVUPQOLFB?92& "M1^zuD2&,hf/# \$1?Qblnouzuklnkjmsvsvslfehu}a+40)5k-[4:\*+EXW>n-  
~qdTE<951-")\*0=FOPPJ?;?EN\_jptxk8Jk"}KYkB{wy 8EMWjaOY9v='  
(;@3!  
\$+&"\$(6XS<oa!9Y%a !g>m\_duzk\_VX\_jw}qe`bhnn^YXW\\_XMHBMZ\_WNKHEB<81& !#QCcvp@/ -fR^  
%!3CUgmjm{|}tkgffglqxxvonmlw|/95,:uE|'B^iQ l6rlcTLE@85.1696:CIJHC@GSY|blw 2x {Hdx&PpC!;5  
?T;"=JNTbr%4La-  
#1/&  
  
"0L~"u\_{z]+PZ)IP/Kridvo`^cmtwfp`^bilph\_WWV]^TKIOZ^XNHGGC;1-  
!"VP0qmb<,)LAb5\$%5H\ihgp|vgb^Y`kqvywrrvyxvz  
"3:72G\$^5Qe]1k@ztmf\SLJB::BB9:@CBEHJHO\c|jpv{B~Xi[FnE&<V\_N;-4E:;=QUocTYqEE}{Q2  
+)  
  
.Ed5<n{uU(Y V\*  
g`':6  
r\_otd\_bhnrpida`afkh\UV`caZTOLQX]\VRMJB:4\*!" WeLt<|}4\$%-  
+|@+'(7Ncgfdlz~qebXQ|kvwzyuw}|yy~zz</9:<TAt  
#?N;~^B!zwwj^SPPJGJE<<CDBDHIKT^n|wp; }wWEnI%"9>Hbutm\_G.'-% 6`vkK&M|`\_J8O82=C>.  
%%  
  
\$?cE:P\_] LP#  
ju  
vWhV9z\nviedhlnib`a`^`\_\_ZUXbcZTUONU^b`\_[UKA:40%"d{d~uXi+!!JE(7'  
#\*:.SekibhwzofaXT^ntty}{|xrr^(6<>ZX(/  
INp]PRYTOIE==CFHECBIU`q|ncp\*nfYFvK),OWV mz`E.1`nU6=trj  
=o?\${!  
!  
-[#r1@VszAL!

{vqd8ao}zqkopnjkk` ]bhfaXSUVVY][PJRWX]ghc` ]VOG@;5-  
!"ikcve<`,!600B)!\$0@Ufolglv}na\WTZehiqx~~}zso0r'39:\  
lk>oZQSYRLH@<CHGBAAGUamu{zmizVsT[1uJ0"<[df]woX94]x{{qV3"6\zy\$E,!!F+l)1Dw@K"

wiybgqznfix|umid^^eoph[UUXY\YRJEJUbhkgal\WOF?;2) kvSjU W)!2T<J\*#0DZgkkik{[j[TTV[]\dpzytr  
8t'232S.\_/pc]ZVRRRLC@CDCCEIMT`ilqu~GZFawO;64>JWXdr\YF >bunE8Mstj;0  
!

6n+Y,;1-"\$["NC  
eXpmsyj`evznh^\dmrtmf^\_`[WQICGU\_eeb]ZY^^UKD>7+ jaoQhP+#  
v6YER(#1K\_gihgo~{hTOTY[[WX]m{~yzx<w&121R=vx{W-  
ypjaTSWYSGB?=>EJLMU]\_emw=QC#\$}\_L<.@NRWc~rZO?wt'SvITLW|yn|  
PD

\$U%Go.LI3.kh#d3  
\_Sryuxi\cmqroibdmuwtkffec`ZSLKNW]`\_YX[ebXKGC7\*ps|MNzK,'  
l3TG[+#)9O`jkgjwzeVSUWXUTV\_n|~@x  
&246\FyvtqNvjbZ]dbWH?9:=CEDMV[[k]?QK4 ViM1.FS\_jwyhU:teSIYn{Mytea\_\_pf\$

6}B^~ S]9  
@Btw&

oi}qrh\_`dedejlknrsqkgiijc[XSTW^^^][X\_fdWLE@8."  
{w~I8aG(  
aRLd)&.BUdopopzg[WUPONNqac{ '/26cHj9}d^fmoeRC;6:@D>?FSX[ap!@QQF93HtU33K[bktvnZ8  
m[R=3A`wMwzhaijfuL  
\$S3VrO^."|k  
A/#ljbY[^dcddihhijmigca\_]YWY\_a[Za`^eaTF?=:3%p~F"@@(!Uxt|SUo\*" /E\_lprvpd\SMIFJSes}zK}'.\*\*^L  
l8nlstm`K<546;><?FMOWcx/AQUW[Zfd46HW\_flfX4cMC10Fi!Ttq`Wfher>O7&

7o :[9@#c#\$ a`Lnib]Z^fheececdfediokefhi\_WTZbbXU[\_[\`N?::<4&lw3 <%  
JaS|Xb}--HfqrqxxwncVLGEJtds|1a (#!X^

]p1xeS:.01--20:CDfPe +CT^bq{zJ ON[[^cXE+dJ4&/S{(Oc[RUWVRdekI%

%L6\  
"B,;<W  
!"x}tiklhbdlieccc^]cnphdef\_WUX\^XUSWZ][SF><>.%rs8%GO=\_1, !/Mfsutsy{zwk]SGHN[ekqvy]C|\$  
%bzwoLz\_E+"&#.9>?Ld:Vkw:2WbZX[N4pM209V5?CAHJF5?oqH|O%  
/\_;a  
4\_`^YNqiw~lt|tifgfcgig`ZWY`jnicbaZVXWXURQW\_\_UHA<;97+#)ww7#BB1{Vq(3Qhtx{yz|yxskbWLLPYagk  
nquy{N#&3uohxmQ-xY=#\$-28Jh \*Jez/IZTls<

yZHERc'17CK;H|x`7yH

A } &Lr5txgIzqw~vonh^]iqnbZZ`glnhcaaa[SSRQPPQW^YLA;;;:3+!",u{3"  
@7qsOn- 6Qgs}zwtwvmd\_UJHOZ\_ahlsqv{ w{ K(,;>'skw}iWNF.rR8" #2Kr'Jd|{-yx1JNB;#zaWZ`j-;HJ-  
"O\_lsW(f7)Z@b!,n!G!xsqh\_^ejdadgimmgc\_]\_ZQMSRNMOVYTNE@<<83,&&7-r{4)"=)  
nzQl2%6Mbq}xtqsojc]OGFP]dhiorpqzwxH'\*<  
-qW-tnwu`MSVB oK3"2S  
Ak

!9mw&982)vc[\_abw0BG@&5bjAW-

9v0Wr)hF\$'&!%0?~|unoh\Z\_a`ghecfiied`^VOQX[TLLSYUOLEBA>81.&.X?Cx{i}3(!  
;{^z0")9Matyslkkkh^MDETelmoopyw{P!"8Co6sdzkh\_HBS\_M%ID-

%;\_MQe\*Lo}% 'vcgmdam/LP?7

nKtM.

JBo0W~I

\$+\*#;Sayumgeh`Z][ZX`d`[bimnle]VSU\_^SHGPSSRRRNIFC9)!7w`]Jqp1\*\$#  
1m1(<Rgx|wmhilfWIFOYeksqoprpz{^ 4(V`vmt?vh`WL5##DWM e@+.Ek&YIZWy  
&"znr}yqw1JTAr

C7[0IM/

&[Y

3MuI #) 'Mpqmhfeffeb`]VTZabckprtof^Z]a[RGEILQTTSURMG=\*##<q1,]k3-)"  
/p6 ,>Ujz~zjojpdSIQ^iortpqu|z|b 30pN{eRXu)~}l[SC')>9W5\$  
-Jv:oV6Guqb!"|/<=)fZwBr5xgI'

6p\$o

/VtF

\$\$#[okjgiihc^WV]ilptrqqtsc\\_\ZQKFAEPTOPWVME:+ "CxgKg4+,xm4%2AXkz~zrquviWU`oz{~zv|\_!\$\$7+OtaN  
X|PWkJ;\$ tF,

(K|ExxEw=!

%'Be.\ hEHj}\_?

S<4.9`uD\$#%\$hqknmihmokaZ|eow|~{uqonha^}\VRPOIELOLMWYNB6""\$Ei5a4+"

(kn2(5D)o|~{vvyxwzwmfeo}c"%&5x eqf|m.4'yB%]4" 'M

(C`[HU\_E4+

!%WhC?&\*LvW1

0vU=>"` joB\$\*%'!xrmppoqprpfbbju~wtokd^][YTQUVOGILMMPNIB5\*#!"D

wyX2-\$)xiv9 (6Hbw}wrsx{vqpps}d

\*(&\$/'C}dis28GyI)

2Z#0+ vq[.(rn1^7  
2=1\$ #)}\*s6u,(!<ykH\$  
E+g30#1f@"&&("xpuuswtqjggkv{wsnkd[ZXWUSX\ULMMMIGFDA6,)#!!GtN0#  
Syns\$@!+;Ng~|vqsyytrs}e\$#0+%")ePodj,cFY\$! w`?\$

'Bl!eTq\_}qN2 !C]ZH<=73&?0  
7rpj"U\$;vwY2

"\9oG27\=&-\*%>svurrvsldfdmuzvqokilnjc\^XYYVSPQKF@>@=2!!(O)ikL-(&#\$"

%liu.@ ->Pi~~~{vvy{ww}|~i7`O/1)\$!c)yu{"\*unu0!%16|aP:#  
4TIODJvWv6tZVL90?[znUVTK56JB Flaj1g/#\$;yxdG!-j  
<rT(1L<% '1/%Rvwplkkhc^`dkrtojlkmpkdcif\_ZWSSSQMD??>=5)! %Q4nVMiJ2)&&!  
'a^k~-@  
-?Ri|}{uz|}{xx|zl+xN,6-\$"!iD\*(,%E||Z,&27zZK2  
#@d\_H?9<Q,|o5|j}eOf~osnZ>\$%'?OL2 +A2\*DmyfqGO.'5irX6

5p;v  
J%5<=%!)/."duqmheb\|cejnkkqrtwuod\_`hgaZUQRRRPJDFB=71% SE!izE1JJ1&  
!JI|v/!-@Tj}{ux}ztuxxy{onx|wslj , 77)"!"/u'>(DSmYA!uWG)  
+Jl`=((18?[Pmw4`O  
hoR '(EM4IRSH95HY)|e[qs(-G\*%CxpL\$  
Bx5k>7L'(9&"\*/1-7qrneba\Y[bjkkkjowzzwqja]`cd`XQMLLMOMMJEAA:.\$!YYB7!H5&  
05Wq7D  
\*:Tn~zpowwoolgnvqgozyrrzyvriF`g7@7\*\$(.@B.!xjmHg}NZ  
w[I'  
6Xqu];&,4>i1od@ 3  
l> \*Cen@(1#e|F&CW^`htsvIwtx[i1#BhiC" J\$NrO\_m9t1\$!  
\$,275%Azuj\_^ZX[fihikmsx|xskc`b`a\_ZTPMJIKNOSMB:/#"Z^S:A1&!  
")Z/II

"7Xswnpwuqqolru|qjnnponw|{xvsfg[\6IH=0\*.:P 9|lk^c~<`omy}(eM/  
%GbgN)":zZw\_%  
f?<EVmcQcY#"":}j;?Yiuw|iaHp{YD +D^{hL1#  
F4]t(Em. "\$ \*397'  
L~xi^Z|Y[fidcintxz}yqlhe`bcb[VRNMNNSUNC80'ZjZ=6, \GXN

!9{x}vpswvtv|}{~}{vqoqpy}~yxsgn:EQN@3/:D[WAC^SWYe~1O[ kIKII6'1NZL+  
<frK]PeBUJLCr\_mweZZ@KfYf~E3S~2{ho<b\* 'KyzcK4&52 @ {8mYLn+ ".83  
\*Y{n\_Z|[YXdkignx}yzvqkiffgea^YQOQPQPKGC@;1( #&g~n51(UQ]N  
";x}tqvyuvx~wsw}~zup!Hly"UORL>49FiVE `HKTh)EXipxn'vL@>.%DUJ)

O?/7g. 9bt;TWT2Ydws  
a&!JIRQdfv=P|aA 8IE+D3`xR  
p)" -7/3\_uf^]ZUWcpokrz{yyvnljlkigdZSPPQSPF?>?<6,#&&luq-) GY`N

#7Zx~wsuxutu~z}|~}xurhx-zhh]UK=8EObBkiKMR^o} LImp~IB  
aSZO.+AXY>-stV|/=<=F;l\$#!fL0 NeawIc0'Zk?  
B^V4 +Z0guFj" '&\$,4.{q?qwmbf^WYanmnqwx{|~wnikpnhrqm`SMOQURI@>><72&\$&uytzc"  
@\_mT!8Yw|sswuqvzyw|~{|z|ysh\*O  
SjWKL[r\_Y, fMLKMYgGv~YYwekrzrJ&%9OahT."P>E~@-,0KL\*<!  
.8~^ZdxvV02gY\* A`; !N#UwS\_#&\*1/! d\Z{xscl^[\^glvz{xz~}qeagmigglrlcYRRVYTLF?;96+#!\$}-  
Q^[\*]!@mvV)@]wxvxvoq|xuygq}x{ }tg2PUMcxcVICMd/dxb=>[g%8,hJAFO\_q{1F!%B ?H&5j5&6sn  
|~ZBD[/]?@GOy^T1

Em3:WU5!KBIR|\_I&))-/&snwyoe``\_dp{|}~|pecfmnniced\_\XTWZVQHB=51( !&;8GS(&

p<qxV  
0Lcw{||ukkw}ys{ymr~wuwqd&kp|J\$\*# A k'Jy\_|m| :RD\*/LjPn89D1sqrueqG%!"-Cso0Q)0deHNhz&

\$@2"lnS\_U5%:b  
VY(.VRc:!,)\~7  
3GD+#F)I\_ \$dtZ2"\*),%woieaahu~ }~zumImtzufYW]\_ZTSUXWUMC=70(&#&B#80\*'l1x }X!1Lftyy|~~xppv{yuz  
vzzxvpb  
i[VQv)+9 ..zw.-(7YsbRO6~lug<%\$)\$&3TjM]\*

;yVqD48Ujy.#\$&s{C80  
\*L4sZ|N<+1h= )72%#B{)Nhz%<7}FN,#'(&\$)xlieeely } }urpx~ }r`RQY`ZPPXZZYQJF<3(%\$\*J.K\*\*\$\$\$m  
]&3Jcuv{ }zvxxzzzvy } } }yre9f  
2L  
/u  
W8%KL %I6\_07jPWutQADFQwr;j9Nu\ (1<|x{ "lp3

9bL~7c>%6uM".\*""00~(Tw)GG+wJ7!%! } }ypd`biprty~tonpv{ xj[QP]f`WY\_\ZXWPH:;#"\*UH}'  
id\$08Kdpvzwuv|wvy } wsty } {zsh&  
RyJ\_0  
'bgl/D>  
MMgTCdG7=g;=pfF%  
,Gb)z/&@OQ2 Au5P

)7BJg-xocT#m8FyK  
+30>]>vB=u{`)(K"  
~|ymb^aiqrtyxysqmpqrh\TU^gd\_[[WURQLC4) "#))^B+'c'%l\$0:Mdqw|}usw }xt|uux } {wlc2oC[  
j{C\k<'%?d)XmKEfeU2  
mD24QGoeF48TFqID?-%8a\*{Q4(24  
0SbTAIqvA9!%\*FrS 6"BG\O/6R\_wMv:+xnX^LQc[  
}znhffjqvvtvzvvxvnlqrj`Z]dfd`[XUPNLF>3+! (26f>\*(! \_\$3q\$+8Nepy{yy}|y~ytxxvru`ZC-h  
^|&t;&C\}  
ns/&L4vcO2  
j99e\$%  
YwE60%'=r@ZU7 smkps9]fmjgS-j2 "#,Kx)dBq\$z7-%  
8Z\*fdZ/rrl0BnGZ "-ytkikpw{~{xttux{ztjimng\_]dklge\X[VOIB9.&!-

MHe7%a9!+<Qcnx }y }|}|rrv }|phqwmTXW,gg~.Z a2

!\$:hb@kT#Jkgwj9

xI61(

\*>Qdvrtz~upqmntxt,"g5 \$\$"008qO\_4%

Ai%KntXQ\*[%eI8Hmr\$,1'

do{ttonqv~yvysifkjaX\gmkg^ZXVPG<0""%)1\_Wfx.Zxr B#-CXfov}yz|}vq{ }ujnogP\;l5K2\~0>aN jly)! 1b?R-,-&  
b>2.%

/[ }uooop:<ruQ\$ )0\*,8dWRV5' 4h

Dy4.u?!!{DDT3!N<V`S8

=ba}yvvqqtX|vmjgd[X\_ia\_`YSLKG<-#"3tikh[a]SjaG"

#5GWdpx{wy}x}wuogUf[~^&JeHAm]g;Io~26cT=@20bH6-!

(i!AF#0al""HQ;

<

/BIB=S:|C#H1(# "\$,H\$Y)-,MCv!: Tbl<

Tj~vvrklrw~}~womb`aikc[\[YQHGF?2\$"6~x\;A+

Si`E\$!%6EQ|o|~{~}y|wpi\y1+Zn`6=nkhhq} @V%FUi

qZN9}6vT9)

MUyK\$,,\$9OI,;jb<8>:\$(SiU6EcstV#R .FW]V^}&j\*qnb:+"!9Dh%n53KBcd0.?>t +c`If@2[(

xTyzmlidhpsy{ { { |~|y{~|xrmkmmnste[^]\[RKKHB5'3}Y)\* ) Td[B!

"1@P\|z{xrwxtokaVTYPaNGEGJU`fn~\$Fl=\_,XQrmE,1?zT"[yW:\$

0x\_{ {urnU2=}|sR R +=Rao~#fbY/#+Hh|\_`FVv

2sVEF-C" K5CEDn2`=psf]|`hmnquuz|{uqpuwxplpuwqooj}[[YYUPQMC4&!3rV!%|S[IF -@Q]ju)~}|uwzqool^oX  
rG3.)\*,3>LXdv|x!M <&Vzr=T"8{uC=L

iJ-! \$3M.5jI"!|poP&L,0\*!,7FYq7x`#O1Fx44B4 c7-C}'SI.zH%B Ghn3

Org^]cknlpxywxtpilrutrooqogghif^[XSTSSM@/#5mR#LL4P +?Taipwx}|x{pimpk\_1\_~{oeVA\*" -<KYgrpkkz `)Z:

\$MUPM'2|k2\$/+GT

iJ1

/=GUIL)

e5)RpQ/N)B^aO<\$!%\*6?DK`~A+p1 K\_l&U,ot];QP\*b`\*

\KMjG6=R4xx{ \+

Y0zoieinomrxwqijmqvzztnjgfbbjqpha\UQRPJ;\* 7wFF<#]"-DZfkpxyxyu{ {t{ }jfpsoh&!

#5COSY]^\_18K?

3

w[ {pR>9Ue3 WCqM2

\*?TeltJeRzuZDZA}| H:42;@CAGO[x?"X#QxrUXddD,/9f2]|K@DW?%A\_H)O}wspooouwpidjlyqliigenxwpg`XQ

IF?2&65|E2f!#/Kamosyxx~vv{vupwwgktyxp."2AHDCQLXdy\~5J(kKEWl/ vN29Pg|8sj~v

hWidiVJEIVWOTbu><uHeqY.4maK<~D.K

raUBzk\F4N@#ikX7  
w9&ywywtu~ulku~}ywtplhjmntyngd[OFB:.;"  
+pB\*  
h+%4Oestwzxwz~wppt{rhajs}{pF #2@EC@EHOXiz7uQp3xc[Ybwbsa6pQ4& 9^|'  
}tlxd|cWT[de]\_u6Jt2EiTO`CLt6t=KwTHC@=%sO2?jWJ5i>MaCs,  
]  
mr}{ }zyzupjkkkppquvmgef RGF;- B6!\$m@"g3(' !%.Hbu{{ {y|~ros|i\_^fmwok[ &,6?CEEGFCGTd{ +RYV;-  
BTBS]T6  
O #broUjG6(%)1 @b&01wztw\_vdbemdcgx]Cgg6nqWs? jvL877?H<w[LRf} Nu)  
@j{io{{xyrkhilsyxrqqlece\_TG?4%ED7j  
  
!=}h;2\*!&?Zoxxyw~omrzy|h^[dmtms6v\$2@BBAAADC=66@Qo6Y341bj-Y'3dgoH7,\$7E^|"-\$-  
"wnrxutNykemkfjyOd->.,qw5DP^N>DcE4.26BF2|oiimr  
E p u Z#V|ru|~~~}z~{smjmstsqrqnjfbZSK>1 MXQd  
<g=6#;Tfrrqozvv|~xrvyscYXfryv^(J[d\_SIB?C@9-(;:\_@bd=  
^4&iylND1C~p)~I7\*#" !,He  
%69+xmojNBjo8{intnku=ohidk 1 4(PmtR:Cah:~Y5")042vurnn|nV8< J )@;y{ }~{yusvuqqsssqjbVMJ@1"Qjmx~^  
!;kH@%'OcstqoxwmmqlaY)muzs17[rkYNHH>5()K{; ;IWny|z/&i\*T1#! !=^Ap]#  
8  
}wpnt).&s\_SA'  
mx?sqkinzJgzcL,"\*c1B/2"Pr~sU"s`\_iu4z\_K7'mo}xy||~}zyvrojdXNIA.!UzckT!8)pSJ%\$5Jetwont{z{ siktqhcgsvqd  
O4mzpaT>/(\$Bk)lu\*` jsbEDS:o8!):[kv8-DKF:6?a  
~tsma\\_n{jW;!!du2AEukoqrzz  
ve/%=-M&JFihl?3pc5\_=6Ff){N^qWox|~}{xwz~|zyvohed\_TLA0! bQYM  
4nxcX""2Hbopghnu~vv}zolzhenzyqknstl`w&\_cF/ 7Z9w4q Q [ v`dMo \$:z^O)%/K  
}|bYgiXRSPS]y+3&vY.-  
m}7:xU3~xv}~tt%hO+Z.nlgkw\*kCST8}\_B8Mw;j?3FDnrqyxppuzytuw{||y|~|xxulegfbYM?-  
"!d&7HH4zkqi\*(7Kahhbgipyxtsucd\_dacmzwoggnplk<(JNI;wQ6!";^;TF h p]S\*J2WX]b|/  
';  
F s  
O418BOm0MHb0@d~h\_QD-zvk]R\t5Ef6,Nr{Sp5\*H&wld`qSt\_1jlktsmkoy~{ xzzxu|yz}yw|~~zywrkjie\RA-  
""#m05C1zqvr.,"=Qdiiigmknxzulia`]c`bjuphaaimlu  
K^|qeK)dA\$3Y<s0 m n7;AWt7  
  
0l\  
pB !0?X\*!,DE3  
p>2aqdXaD/TO zjQ;;DbR11xp([s]v |uqs}+[onkfl Tdlipkhgn{~ysw|}wwwvwzywusrojgX@.&0:<5\*~<  
)A -wp|wz0%"3GZjhjkkmjkr}xvjc][VVSWcmke\_bkmi~)  
Hp~kQ4tN(  
0g'rRL  
G;N\$ "3MYGTU"  
\*ecx,).;\$  
}W8/Q'9-!)#6g{zefpU3',4S nG(k),OgY({<[ ]urxpowB]UB4 !{ufmlofadnw~~}~yuw~zyzustv{ |hRMbtp^D7:  
"" -lhvu~3\$#&#)7L\_jijljjnjkvstsumb\VQLJNZghc\_igb8"!""#&#9xWnU.}Q&8bKzv=i\_Y [hDyA  
^m.\*O%V`sR;!&T)!""&}N  
  
1}Z]7 "/X7OQ{z6ArZ  
xrrp<ZW4"B

gclpotk`luxvuv|yuy{vrsyg1x5" /oVZz|,&\$!.CXghmqssjgovsttoe]WTOGHUhd]^hd^)\$ !%(,+&#(% !  
! ,+\$%Pe1wGF FR=B.[6Rw\$18p}MmgH4K  
~[>57/&(KsP11A)! <rNb17WBVim!>^ebEp!\_

"SWptuztiep{zsu{|y~{z~~  
9n1!,WAS+"%9Pahouyymkq{yvolfaYUOABSdhhdadjgaw#(./)'(% " !&-,(#,a/] g8i@\$zfI5d\$\$\_E+OzjS{K\_}k  
sZZ{PU5\$0U\tawf:u]kcz+7  
#la\*\n  
k0  
% <Pn|y|ysoz~z{C'If  
!%#.J8S0 &7M\is|zvonn|}tiegd\RJ<=O]ca]bhgbhXwt "!!\$\$

\$!

)]BghR0{H#  
<7OH^^D2  
FttEOW6 XrE&&AkkR6-;o`/~7ke0+S\$\$fY\+\*Gk}}{yy~~NK%hBS\_p&!  
%.@2L~/&5IYhswtqpsv|}re]caZMJA?IUZVT]db^Vh

"LyxB &Jz=oh!Ce'\$aE1Jp,^S36  
%0"#ZB`Z1"!%.J~vjn4j UH~8^t9  
NvQRcU }@h~~|~{|  
NX0\*G7WTUe& #+9\*Cp3"0EXeoqqlmpuzznbZ` ]UJJE@CMSSNW\_^XNHIA

\*;LV^aU60Sg {=isnea`\*qJ7[\$pj "\*7!\*&p4y%aD)!"(3U{'Kgos^j@#  
A]aPHfp+vZ'i4q|~|}3QEGXDBiS|K[u( #+0#@s1!/F\inlpigiotui` ]^^VLHD>?GLPNV[\XOC?d}. +232/,\*)"4FF3 O  
.WOPJ?7%5gyS6!"l.pn, U={ \*3&/>!~pb@P0Nn;\$!\*;k  
gbOF5u-yl:w/2mH.YQ/U-({~z|~  
;MYbIjfnQf+ #&\*C2 %7Mcoqorkgdgllhceb\_[WRLFBEHQQTWYXOD;:X)Cd|~unkzvw

,T\Pfu<(\_G.'7y(':o)qSHTZ9PJ(=>:/%  
=Y((UqG3[/%\*G}oq;\_8p'/l+T)L?m oQ,  
Ay&5|y|}xz&FcrX } \JV(# \$)  
B6 !>Risroqmheegjkjof\_]cd[NEGJRRPRVYNEA><QW%/457<?C=,  
\$Pa@i  
/Xm`SPG;0/5:6\$  
2Bb84x  
}|Tm!\*HrE)

7E^;^CJ"T{ % @E)%IYI=AF+v|DI7VEs{ ?xYK\*'O0o5=u dR }[eREEXJ+n#  
'YQ1 )n6z~y 6|]f!aAE% %"\$ %97  
(:M\_Inorngd`bhorug[Xcl\_NCIPWSKMSYNDBC;4J.k)@Vei[8xijk4#+`0=&|fTS^y3hr:6##\*sW]Wj5"zK\$x3\*z#pS:D  
n 2G>I^ogYP`\_Ci\_[dsshbv@r[  
{ \*HV?iJ]&[o;<;Af4:  
L.[5fh\$S>(

wdv.{|!Vzb\$8[55\$!-581#)<!!"!!\$3CUeilmhba`dmvwdqVS^j`MCJRTRKMRUKA@?7(-SR~DrG



m'(S&1>=^Z?,>\*d,U!gl|:s\_3 Yx(LeZ!s5=G^a`ywl`]hcJoR9,!#//,4Mn+e|V1S9]f{F  
0iU~ hxT%X>@~4EKFI dp!-]4

b\

m(){v{

6mT'K{C"%4<=7-!'"="! -@Sejjha\_\_bjv{yoeYTXebRIKPMMKOQNC87:5)\$5\U5v#Ne];+

dc-?Qfp@%ihK<GiE;L^7la\*

%Qv?g??pKTOWeeTjkdkiY1zV?)\*%Xg8H 4N

byr<=|5;<(r\$.|.P\_S2g>'

LQg\$}tu~ \$1+bC.a2"+8>B>0!# %'

(C!.@Tdigc|^bkwywoh]WXef[TOJHKOROG<35;7+ "&9f6wXBmKvri;Y3l\Of=JkYF%4V{&HT3TAs2(X\$QS\_{

5aOJ@INDDUgjuy\\*BbHHMT\asKCp.0@ds0Hr5!X

X\$H%b6yAm:% L@s{U6l~:

"!6K^ztpu}~|GWO;' %

!A>

H}n'0i0 +8CTW= " %)z2E 1CUBfcb`^^`fnqrnhb)`efb\OGJRUUOG<56;8\*! 'DxZq09eni+.GV

~\I\jd)A\gjlyE-AT-OF.r. %<mI+%> UI;DA6I\_sw}d"q|i^TH.

)Fr?&ceXkcF%l:u8Ae]uc6a\5.jd P

'&&!#&\$ o=Oxxwqlt||{boN:(AS8S[2k/'9ZN#&" )-|&6B0DVbe`cbb`bfjkkddcc``\OJQY[WPJ@6692%!1R/

zS)+#UsxIEs4CatBv\_anjT7"83;uGpZQ>68D`pFX-AUO47G82oB/rbHPTL[zt,UwVA75/\$

6aC8z03ITL DHO{E/(=11fR 1e!X:ZB:2,;,U\$CG506/#

##\$&)\*(#%'\p%7t|~ymq|~QdCCY//bE 1v'z =~V# ',x+9E-EYefagijjefhgheea^YVWVOQXa`[SLB645."%;aw}i

','\*\*(!c

7&>XKt[7

4t>tNw\*|wfpFE\*Wx`LJ93Ih\3[iN]hi|]^B1'

:\X+QN-OU1'

3yodaORs!uC^G.`iFih-(@%

!&('%

BS fwr|rv~||+ocgvc&+V}x\*\$z|r!AH ',v0>J" .G]gidmonmkijkikihc`[STTUY\cd`UOE<84-

)AvRrp/0,+&m)d}o?@?O]C!q}o}GE9Z\*vK09ZY;&vH;Ne+T2)\$0]

?p?LVB5FvxT"+"NnsqeGGh87w+]uL{6}&+H0""!zz37{qr~}w}}|ztrx}3dwgxa"JX{f

}

j!6e~\+!|,s:DN -EWaiqrqnljknppnkgc^VY]a`aef\_SKFA;5," ! "-R#Rb///-!Y[i 9UPkN}bdZ5-

7yz#|Q7.DM^1%Z:BmK(

\$dnH+5Tov4c8#6sO6oOTlqwE )BA+Gxo{-oE]#93S^H>1dHv,:]=6+\$O@Su

UMN{jjmuzxuy~~yrosy}(AYaXKVu{W(+MJ8X]a"6;\*&&krk

NRT! \$\$#0@O|hmqnssokpsvtpif ][befdeieZPEFC?3)#"!%<{"C,25/lif

\_}jH@.4ix;uc lSad.H9Zm'k'-ZNx%02<PN% Cv+vo<" P.OdO`td7\_hPMPHw`ZeqGhC5/aJI-B%l(%k1yE@D&#

)fWw`] flrsstz}~xuy{~ ;N[L:8PpmVK\l\_/2kZ#|W!!!!&\$dhZgcX!

'./,1;EVhospststptplc\_] dhdbbhkdYOGEA?2+%! #.ZO,;0I\_F[nhfh,MD^8k`1 !oKZ8|XRbL(DKfnc^@?h \*(R~D#

6p\_

\$ 4`QIC3\*<gP,XcVU#?JpU,NGPLEkw

i

En;V;0\* h#QwaZ]^eltvvwyy}}z4Zs{[A?Sd]VrV[X'z|YoQ&# '#\_`L|vjX  
\*222105@Sflommrxtvurpmeabggf\_] ^egaSJDA:7.)" %AE&:9. 8]rXDCI2}ZZ'2\unV 89+3Ts"?L7,1qd3  
F-??98:\$DhaF\* -zW  
>JWdwJaLOZeu4ND?

6o

WbaX^61.#9  
>~#0+ +9HuZYZ][^kw|]zywz{zyy(Oh||]Cl\_bT\_WOU ,-vuHaJ&\$WQ5y{nU'-  
263./<Seilkjnwwsrpolihkmjga[[bb\OHA<5/(#.\_[I23+

#)HjP1,Mye8&+%H{R\*7

@?-@D

x(5dt){D:\+I'

%cuMnqmeY2#1'

<xi+D' }j\7840O>#cMYNb ]4kt\$! OF;ycRUTRSYdp|zz{|qmoX,@RP81Kfd\ogFV"0=(x.ME\$#O@{ uW\$)074+-  
;RfjjeimokonjlookjgaYWad]QH@93\*\$ >S(.)&\$

"\*F4-wE#uxU!H~n>wLk^9R{V \*4);]p^]1

6<ZpH"6:)V

:)rpdd\_I8;;@Cs>7H\*\$Z>2U8h@g], jE\$oh`SROJLVajt{z{|}unjn}% Hjmo!AT(6O

EAE

F.){[#,48603@Qfkmfagfinsvtvupfcd]TYffZOK@82+##(\)!/..-\$ \$.@R

,-9tR\$}\*Qn/4eIBf^.{vz5

)6 fK^,7oI@2=MZe}@(7)@a

F|i+EjeQ2TYg>ve^ZQLFBIYdtyz||{~wppquEi"6J%=aR+BE#s2b(0:>;<@IUEilkjihhmu|~|tica[ZcmfWONE=93.(  
"8\_1685("GN?6 qe+ ] 8 Fhiad'rB>eSNA\$qrst0R

Dt,mCld.J.TvtS3#F

=tciGmp]Bi]

N.n\WOIE@??@DSbnuy{|tqtsry5Z z\$;%Fv0W; A`5i!+7>?<:HVfimuwpjlrX|wphb^eqtfYVXRONMJ=.#"WUz-  
8:6+!\$]bY k

d v P D U c>H<}[oG3A[7(rZ\_hm-o9

,4d1g+E0^zKNK7l#Qo=#qSx]"mB

"!z\*\_fWNKC<6249AHT^jv~}y|w| /z6S?e2-

TL\p7!9T9n#8@>5.0>Rblp|]qflux }wtlebckyxi^[^]lv}vaE,9i0!663/(!xApxz ,

G

Y

l

u

n

\

B

,

,

L

h

P

= DST\=zuHzX@?WY?jjwPAGVs-@y\$\_.wS\*]'<K[{ZWgQ\rxIliYSc3pVg.S\J

+k  
&+\*&!j@`UQKA84/-09GOW`lz~~=]IL)0Ybec6  
! 9}Y?s(2<@=4--;Rbpu|zqhpzzsmb^ago|}oa`ohA'\*XT-430+!&:cw+w  
f

,  
nKnKbJ4/Um>Eh?7KqbC9Lq(n\_GnY|qt~LVN0[.%3Vy>mYkhl.\u8VF:\$  
Zm' )341-) "T\_&}cZXVN?75468@OY\_dn}~|G>B\$6^vkdw-  
#&:xeG{)18=<7.0AWennwxurw{vob`eknyzndn`9%"<Q'897, !:MUme`3  
) d

X  
k 4|D7?STKdgJJx;/9%J6o}gW\_)>J<ZV }~}{tkmr "7Gc;.OiVw'n HI3.[ybiLnGbzo+  
'48952- C3|je`\_YPA79>AAHU\]`jv}~~~s./T+>ecWfz)%&6kcS  
!)17;946CTcjfpwxx}zuphimpqupgl  
Q. 0er6  
9=:/!.%LHG^ .

y

''

Z

w 0GoO-%B|"5"  
9F}|z-H<-BN~xwkPRhb:xIx{sp&9W{YSGuY]Xpd.d^ !0W~}0w?"

\*6;954-;bqigjg^ULA?FJLFFOSRTalty{ }x,qd%;BtYwEPb\$  
#&4nSRW#\$'+6=<GWgkfkwl{ } }tqoqw|ytio>OOE+m>%(L8  
6:<4\$  
hK2'->[( W

{

#

0

-78

mw+B,42p'8#eA)

\$p+@\*?{t|qJ-8[{mXjd^7|#Nh% 3 5 , ) ) + ! ~v;5]:LGXS- ,4994/&?Ecbegif]UROKNOPJHKMKP^jpv~|{r{0U[%>P@  
x[q83C%2L3=T\*%! #-8>@GYknknv~{vwvs+fpN(R.8c/:=5%j+J '

n

X

g

<9d1)A6^kmuR#r5^]A3b &icxjnv~tofR;"\*Wz/&F2C}&wPo d t e U J 9 299)\$9LSm[z=&  
%,1661\*Vr\Zadcb\_[X[[UTRROPQYcmu~|rkq;eG4RX7j]5"  
&/)9ZCD!0=CI\ourpv~xKwJh:\$+i\_>/>?6\$%(##.7IOR <

y

N

B ([/m |iEdz/,isv~nMD3]mZOTb}O0#[ ]%ouCu(. =

`

j

-

S

J

P

\

Y

D

:

\*

S lj\$.FVs\$W/! '\*-23)rZORYabb` ]Z\``[XVTWTUV\_gs{|solix9oq".TP\$\*t)

%) 8hch\*!!0=CK^nyxqwb

xEN.%\_zA\$.@>0

->Rj.

J

DkQ /

W

WI2?.y3JHLwr-8p~23MyzQ@@Jac"b y&@Iq=sz-X]\* .

S

] K,BPi>C!(0)+1\*r@BNY\_b^ahjffcbcc`\[TRT`iu|{uttlo8aB?7Bny

"&3qw+!"%!"!"+9BGP`oz~vzoevY1m1m=%'br50A:' ":dKH 2

o

S

P 04\

W -.~`J4?t(?zm(bk8tp7>pD6\wZ'-AzJYJT^i{zDb}wP>G8HP4

0

&&##

X

<#1<CN[X2(<)\$)+.0!"w/&<Sad\_Y`jqopkecehh`]VRR]isx~} }ri6Sf&-cbm{

\$% p,!+152+%#&-)%.<GLU`hv10

C\S.-1~C&3D9" .\.\$'ok s

pQ U Q(oaMSw@{f3b(DN4)%..MvK=\$

\$6elX

0}xzysqnW0"\_LI2b5K[N{,hx2

r

40!!"\$/+

U

rB#"hD5)\$(&Irk5#4K]ecbgjlnrnlged`"\XX\_iou~xj|7tm^gl

!#\$x~r1#-?MVZRC42474(+8BFNU`sQ4)BSH{C! !;hE7A6"\$=;~Md E

'\$MVOWcP\0PM[9X^\_HBMivVlx0"

)I(i)n\_E\$ ZB[zngb(mCX,IZL n

C `F7+ %0.zI !&0DZjsxvpknrtsrjdcdfcabenuzxp Iv:jt]

""k}<#\*7Jl}zeRLIG=#+;@FO[o"  
vS|9g3 \*P+x9?3" +NO0 u

T  
J  
w

N  
{ 1\*Oz9Ys^KAHZnBJ-[wP!~vy8XU+

.De>C|oI-@2b\E=>HSc7H-

n z

>  
n\_NA6+!#0('\_X'"%0AZvxuyvssvohgjnkhhrz|x|y~8bwm\_XPE0  
uuqS

!!e~2F!"0<K\fqwk^O@/+?DBGN\p&)'#-Ur+S/#!9vm' @;/ &4^k":m v

f  
3

fV4#nYK:-%\$'(< \}m-sx|fG34;0 &<  
#ZC7fy= !i+  
c?t>ByZ//6=P6 h



|

rWA8/)"  
!&-hM \$3F`ttxunlrxyuonz~xux&  
tnUgL  
"#^eWBQO-Ff{|v`P@+% ;HLLMVj3!='/////,\$=[kK/%3a-\,93& 2Dq. V{k  
Q  
,  
o E Wv]mjpN}S9+#,<GMOIU9f^119!(1\*\_"a'  
9O77g"-hzHNfp4>g:\*\$%,H  
w m v

{

F^8%\$%#"#% 0/%4Iivvuqsy|wy{wvz~7mc;RH  
#!PF/shsX\$QmWPB/(7LUQHLa{~303441/0\$EheyI?[T.2\*8Ug=II  
t#I[\sT;"'+48AgZQ`Vun(  
-9AI>+1W.9

(a![7\*(p-:})9\*8RKSP=O6\*#

#1Y2&ac :

[;

!(\*)(\$;<r!#2Kp}{vu}~{uwx  
zs],j^:<

! C"j}i<z^[ZK78M[THIZuz#0+.210277)c\*s 0R&0."

As~-B8] 6 c9nFD#x&YVB)  
\$+5M]\_cr%4=GYPgb]k:]\$

=Iv(g3 7fI^I1 a:&\$

'Cp2 Z 2r e

{  
D |tU&+--!VS/Ksyv~|ttwojw|@Dzf"7

!!?fz]b^ihQALZYLN`{yx('!\$\*+;/6;94)fo)'-+#

!EFa% z u : :&4tz!K`YV-\*<gW:fn}~9,59<YA"b5

,|T~2#hhI04?Cb)npL  
^jyIT8&  
":VA 6  
l

t s j K 7|3  
\$,- ?1Lr|}rwr~`Xd,

!"%%;a{!~|[argYI~t\U\\SQdz)  
\$!%('&/5:@7"p'>#(%  
"F}%i < 7 "tEW)`hf

)SFe60-%!! 3OE|O7;/,Bf  
'nHtF

O 4Mt]J4)/Fh{~ja6?46,

0JucM

=

\

h

o

:

t V H < " vIKVe:%\$,2-ZU3 0Jp -"zv}yD\Yz&!""&%'1x\UA(:K58DR]du[gk^YTTi\$)\*+'\$#\*0685-!  
&)>v?s&#|O=<n~Oh'VeP=441)\$-FpAYyYDJWC@`"OM

/%]0#tZJRczAoQ5L+!

-BVK@Z

,

e

n

h D ; - b)NyL. -58,?%U\* ,Bh%9NE\$~}

rtk a|OR\_! \$& #(.A.F)^}

w=0478<FSixf|dNOZnc= \*%&#&)(%#\$(

!\$"\*^15>~HF+R odOQjrD\*haNXLcWMFDQt

7z{D)0Twwy6s0OM

!h^ uicd;pt=&

)K9Due "lk K P

w

\*

b H + \$CR

\>)'388\*,7+'9[8[siJ(

~|yvy>e~B\$(  
#\*!\*-m1d50110039@Rw'zqGCWkyB!)-1, \$'\*/.+&&!  
6zwtRrlewp[+ O0j]^Rh  
l+nw:+Aj)27[

2FP{4jI:0~}%]8

"4w  
3^3y\*? H  
]  
2  
e # ?:EyO'.9<9-)20 &1PGwsZE,}hktyzxiv0! !! " ,29ze  
X32..)\*-.-0Cr ![CShrye#066, &)\*%  
Lc]?a9@j<=zS!boyR)  
!Γ9:b^qNVAK\*IL{pM

=x3(4)R3AgP\*

%2j,#sZ<-x.CsK .

f S,n"M

3>B=6>>: !")@s?lzfOI@fds}qru{ %t !  
"\$ !".+p({<P21-,-,(\$&.FwTQ\_gs9  
!3:.'

8hxR\_dz{v%>LC\F?1Z:zlr{OP:

M&4Tj]L4%5o3]M~3r9\$

\$/7ij>~@LgMTk  
;LIQXKA-:><7\_X?""!-Z#QeS;:>.pluzokorz k"#

"\$##2\*Xyu xw'E//+,\*("\*.5FbvQRYe{+;7(PrQOy#\ojakgEeB|&\*p`l~dR;\*4cG\_8M\*.Of f

\t{1x}0H:+/I

S.

"(5Iua={c@\*UOx s J^Unx5"+142\$HQ% <t  
AVA#\*:<~x~mjkmkt  
T.ff(\$&&\$!"" --PJ3yxA:\*-,+\*),0236<Lr%dMVdy>8J006hZNzRliWObOhD#Y%1k[j5wVM[PT/u="wE g [ B  
koC9+

#}OM\  
=Nb@w#Ps:\$  
#,:V#FozUdviD) ]n  
>KZ]#+\& (\*+'  
<~5%" (S/?1%1FJ3}wu}qjlmw(72vs2H&\* !"" \$%%%!,.Inv rl{7)+,-+)+/011227Eg?U ``o#+  
)Np8jyt]CC`},B`S! N9p^b|,KAAn : t<

=>e \r4,`eIM0)",4@Op,@q;c:a#PXp.(z#\geRU6"#!"D[/%!"# ;o(+6KVSE"ztw{|pqpmtxOfKxc:&%

!\$%/3A\_t)Mu5'0,,\*\*+,++\*+\*-14<U9iiwMRW

7hhu\_NN`p  
\*I}f(7)de'C/i'-# a U

sKU > ?dM\_(V!eE=54AWdlu  
",[D3]Q! L~[Bs!@:)pF dFX6+%)\*\*"1T0KadVJ6} }zt~vrpljmtOqoOn4)%&04eULn=0t8+,\*+--+  
+%&&).1144LszIzq{ @=gwohnp{Q~O  
xmqO;1z!C;j55}uH; r\*

<Z9 R Yya\_~BCY5ndct)Eu!6]ENq.&?% %d)L

C>qM<97749MsA]tscVF\*}{ {~wrohdgnr;Oc:6A\$&"  
&\*(!!8iC~i5&))\*\*% %&'\*/000/4JnH  
uuB26IDxqvzwPW QkY^iu}|yvwzG8)  
/RBeF9I]DS - :

|^ W>sH44Q(HbO\$^2;eNf  
gY'b\+SkG|z8X H  
GpgU<~vrh\]gos{ {~P\_-\$!  
! "%&kJ7b5'())(#"\$&+./1/-1.2;Lpyt  
Q^yly+g8M TpgdbehlihpyzA.Qsf1b`wz[ b Lu>

C0(%=';k#|Bhq-&i/bxmUBwE""B"  
!/ks5`!D|uvvx }x\H\* }|{ x {p}WZgu|cY  
!!\*`mO }m;./1,#\$(+/-./-./-045B`VK! `5w=P>Zcxyr }|rb[ZW]gw|J  
>UtNrt<#E I;  
"cxU m-;0>e"EkIPHaKJ[<tont[Q=' {suff  
je-f"  
[cI4  
fS2qddivyowyj[TWgt}LggikC

!!!) KTJeO#\_YB867.(%&())./-/--./248<R  
,C\$!

+mLHaHS4}srdeegow&""VpW#C! W(YI G ^r3%3<\_I]  
2a2Htd[]p\fl&V\_  
r]ax  
}^&e(  
)693#  
Y#]g<jSKOWc{wkpwsaTSYfq}.M(gd,2! &\*8XR@HM=3/'\$((% '\*++-  
/+.044<Edbk:%7rG{sNBj`oLInV|,xw@0F:4g^baa @

194QmJ K)nFBjg JC'HpFZd`VDAXyQ1ZpN}kmwaa)

.26@B<.)QR  
lMBCG^rpvsgZVW^el|a8bV !"\*0\$L\YP70+&&\*--/,+/\*---1158?L.^{O\*(\$:n6cSZ -"OB[1wD+vpto<MF/  
@j\_41ge0Q X j|r~R.#;JnBrQ]A6/TPn  
oH~/a`[(+55540""2DtrOEENjyqyyla^^afijzKMeD\t  
#&-2,"RB<`g&BX8.-++..0/21/2,+.0/249<C`]Ni8\*!+7]N;  
#?bBVQG(+tnqvJ4A<-+55)"\*CcwJ6=-9drn&h#

.nbv  
XTKk&&LarCvQS^"  
/XVM  
'\inx  
B+  
%][R\$.7973\*\$\$.5:9640  
(<uRDI[tyqw {qc\`delor~\_n;!!(25,)hmAGf;/))\*-+./-+..0149<?OyDk(%+/H56k{X\_4d(vq2v|?s 6?2#?QH7<PgW/-  
(#/^HgQ(T

:n:O i D]v,7Zkr?dH{#&NmB[-\$q=7f?ijM\* <k]J! +4552/-..38?EC@;:9!KGUsQDPk|zpuyc`\_cfjpr{2iv}j  
%05.`dhQPu</-.,+.-.),(,--0368<=HXY7Ga\*5bE9F4.2ot1LlSp1ut2c!:A49LKANewC&)\*.:N.Qb{5NL X\* FX  
6;:nul}7+AtLPm  
U WjNv`G/)9TzaL\$

%+.-\*\*/0247569?B8wWZ}\Rcy|vxvaV`hmqvyrzt@5bjB

'384CULW\_]G>/---,,-,\*)"-/,/0435<?EM!McYK'g\$0H)\*T/ U(,2CSu9y{=wn;k.5&/<=?MlxM42;8;H\_0GNe\*L 46 @  
T,5u7<R  
#cp\_pC

k:Pqb{yh]epdL'  
#&\*'0:CC\_Q~ydbu{vvs][dlquyvmorLFZT!0.  
!  
%<?5 /DX]D.-.,-+)%&'(++..01239>DLzn.\_Y 0>Tp\${9GDNI908q9j"%.<XzyT,#8A>>J[)=Q  
Q  
\*v;o2lq \k%v>oZi|uL! JA!OSH\_F\$  
#  
"\$+6@?xW@z~klwxuxe\_irrttriY`iCW^J  
!! \$?F<W4X\  
EV2.\*,-\*+"%('&-2412138=BIne.)\_p`0?DMwK#b[4\U?>\IMAy\*Uu#9JH(\*2).9V0?Q

:%#0-<>:']GI/^}`ds~u{m@ @yr\$:TCA  
z]s\(\ACq=!#00 '/028=-74)xvrvv}~d^j{~xncc\S\cfmBAW)IO@\$(b2M1h5/)\*)\$\$&(\*)+383127548>G]W  
\*?A8:~-9X?UIfW;<\  
blk\*Tw\*V1<T

#W`)#dmgpy|gVHERn|}Z2)1:LW#cu9B  
UMjq7cj  
[9 0-

"1:><=8\*};m  
vu}ru{n[cwvfYVSRyc(dk(  
0Tdr5]\_dP!t~82-(\$\$#(\*,/441/24312<CPwVpy!;?5(0UP43U=XK4<b&}  
p6f9CV-V

/zs^Uysl K2%(:=>K\_V\*IUNwF9f}7K6/iIGll^z/mB/##<EC<87%U6oqtjq}edo}~tlcVQMPWrI-UXV  
.GhwhM\$AJ4Vjk;6+)&#%&,\*-..0/+ -121229?G\ HzphahS(U681&)Gtk@)%P+++ -W% x00boi}uUOetty4aFO[

?S):dssm~dF#3s^A #.!@\_WypHTo\  
nPC4[BEkA[JM5' ;FD8+(~XNumtrjwsitytoh`XTPNU\_d4C93. -Ppv]21Mr)D/)'&\$(+,.,/0-  
,0011425;?MmI[xni\_.1,()88,"@<I{>2\_mF-9EA+695AXdd{,noy]

\$T/yp\Xmoy/S1yp#{K"-XYh\_]8[MM@-|M9AY!;!jV:0#

9B8)IWhymmy~strt{uidc`\XTT]ns@@"!G|b=(iD=zG7U.)%\$%\*/\*..00...0410//48;DUE{wsg^i#(+'

"5\_\$zS{j>  
->3)Nt;  
'EL^>V7\_`fp`WfimiNMx}cF"LVf0B2<;20+jA27K.Af&]63\*,:3]8o.shn{ }wux|wi\_Z]\_\_b^]h~ZT+&^~`C\$  
\_`q4'&&\*-/12/+,).010-.2578>Ls{ tegL^[%+\*  
!\*1Cj\&P3#NbQ. /eN/Eevb"m 0) bZ\QCRYF-)Cq1Dfd)BX{ {9>"4ELVX5N\*&/E15  
Lp7+\*  
\$.&kj6]phks~z|vjd^YY\eeju9<xhk&q~YB!\_~q\_4)\*.-.,+(%&(.0/.06878>Ia7Bwkh  
&,,#%+.1BsA~xP]6;h`-\$KwMS%?jg>xWVUF+\*2&  
\*JA~PN8(#0UuBF)>X]\YD^\* CTE(+& \*dYH&zpihsznea^XZ[Zbkv}T]gSgA  
  
"n+3N?!@2p]B0..\* &&&(%#&'\*\*+,037::9<?KX{ wpi&|&--)#  
&++'P~oGYe\7E~/\*?NQOA<\3Mx0Xm~OFPR;j@uXI0,6&Ko@P1BVV?7;p0  
;X4+\*  
EE{.'uljnx{rhab\_ZVST`ju~`lvT\*  
  
#]AG6%1tXy}2 ]R20..)(&#%(\*))+03699::>@GO]5)}yus !\$\*,,%%"%+\*):Xg\4.K` f  
-#"3Lt`W:(,H6EQTA)z2!\*#kLubC&09?;3)Go{Q6; +]9<vzR@4.#, {qkm{ {nc\_\_}ZUOO[ksvp4<e  
  
!?!e@'!(uk]pqD{Sm0-./,(%&'))+/2316789<??FLng~~u{ (+/((&\*)%')5@>'k+ko5OA{/P  
=\_M\*GYaV;rNTn<;;pP=9=CBEOTL1  
"Nr4<  
y=  
7SVG:85\*GNluno}tcX]WUQSRNR\ku BFxi']q-(gVv7\*+(\$#%)(./133.16;777779>CUL{syztr')\*+20.-++&'!%&-  
10 B;[G'M^1 /tK2)#qk3  
!Cbsf:feM(&M9%pfhe[TV]\K-1Zrrk!17  
)0255.\$i6%|opu`PLSWWRONNR\dnsu` {eGgN ;bT"\$oe>A&())(\*,-/232//266213148;@G  
B]|zvzv(15332/+(%'%() "n&=WOHbuy') zu9]Sme.7u~7!>ivOeJH,}6\_yjb]J3%Httcv[^5%"/57\*  
&g5^>{%rrjYNMQXYXVXV[ensvpxR~%+=W[C1%\$Ako7R,^+,///0.0./1/0031.--.389<Cbay~}yxy~{  
"166551/12,(\$% <7UQSmBE3>kqEgoT=0Clg#G6+F]Dm54WtnP2 \*\*'vibT"|N0#\$\*110&  
HEeFC1vtztk\_SQUXYZ\\|bovv|P-ro1B\*3CIIMLeWISIL5--/1.//-(+///.++-/3678;BN3xq{shkv~~ss1;:551.00-  
(&% "V CNdENA+  
</\$hKd6jtpvcH>Q=y^K:%  
h3B ?mZ@ @S^Uj') YE {;\*\$!\$-/" G%ytA\_&|~|rh\XX[\_^]\_^`fjppF~Y{rp#--6AOgwF@.`>bQA-\*,-,,,\*(%(-  
./1226878;@Be]mi`oaa`kx{v.99853/-,-+\*(![9Oxx5;<7 Izl=I1,LG,  
e xk|mE'kQ=5.\*F" \*Jh~!g2XSgxnY?-\$#"\*/.)  
96Cz  
yptwofaZZ^a`\_Z`cdcdfioRveE?&+5C\_i  
17Z]}  
T+--\*(,)),0/145545777::<=S&-zd]mrcbcmw|zYeI/56763/-/++)( (Rv&\*-Lxox;@HpE,m{8-  
Zcd{ { W\$seXUQTgl+Tghdok o j1!1B@7/%###!\$03-  
weps:sq>xmknod\_`cfc`ZZ]\_a`bedfk~~Qm)!#3DCqZ  
6?ajEkz511/\*\*,-.03546764324879::>Ls}vt|y|fbmz|v179342.,+\*&'++##Ec-'5|m^Yk|8[q]>  
1mcL!bwIFPG%penwunaSF=/x{2+&U  
ImI"'+(\$"\$%"&/1)kkm~qeijj[\_beghbXV`dc]\_bgf{O=us>2V&  
  
)k  
qVnuF86111/,0001232354324576:<>Ebd~ynkmqz|zx?|f;8321.,,(\$%--)%"(Fc.7>M`olOJIVwvbj  
O|v5'(8:Z0y3/fRtc]bj|D-|uupq{5g>)6\$\*+&%#\$(\*,00&PSDpe\_aktuy{ }l`ekfXSYahhabbZUWae\_`eik(Snm+=8



H

gb@);743/--12/00-/121/37555::<AM#grx|wvzv}|yx~}\$6942011-\*%#%'(+)%9J\_:FNRVVKCA;@\ssdSTo#f^E-  
nJY  
q|ongTEPfnkYG3vlnolm{8JO\lx}n<QKR{!(/+\*"+.10-'h`Y`ikkjrzytpnp}{d^\_b`[XW\`b^\\]][XY[ab`\_dkulqg(Q-

JL;nv@920/-03/0....//39:7678;>Dkwpu|z~{xnp{ } }2>P  
(34117630\*-&\$-53')4<De"ERY\WL@;)=Zh\_G@U} CNjIMv1  
h%ss5x(Ps{W.rj^SKSh}uu,=0"(E)U<29 fqO.ql .20,--,42-"skcinkfgnwsouqu  
0e[^^XXZ\ac[RPRU[]YSY`ee`hr,B>zsUb;#

E3(N71-0/351/1011//159875459<@GX'a~x~ywwtkempvx25598751/)\$!,1/)\$  
&\*257Jx2N[aYI<8\*7HD64ATh~+7\*2|}/%Awt1  
Hbl9mzO#|xkR96AYzwy\$,O=UZ3ZN#082..-/  
042\*#p|solosqmhgmplqx|4;pa^XTUW[\_^WPHBFPVXXWZ\_hliov)byk5wa=#:xX;+xY2/,2452.,-  
.0/37889978:<BDGOuwzxtoklnruw~  
\*-8;89313/>(\*31,(./14?X \*<D?4-,%)@a\$C?-/dR"  
x4{9?J!t@{xeQm~zPtqJ&z\_JIUj~  
. %<ZrwI.1772001440+vnrvpkggillkhpz":{lebYTUX\_aWJE@=?FISX]bhlnonykod1^A\$

Jjsgq`o}70.,-,,,\*.30/12331469;>ABDLhfv~zwvpy{yYy|236811/-(! !/0\*\*0.118>Fd!Fo7:24Koo@ ][kw6k  
9\*2sC@av\sP0~hb|j{ }j|u D};p\$\_\$!%(-16:4133450&N\_c}oruh^\_dhdiiehwl1si`UUWW]^TK>638@JUW[cs~tknq-  
5.jnbsZ@\$

A\^tV}nG650..++)(,+,+11258=;<@DS{^}p}wnpy~{y&1::5/..)% \$&-,39<>Hi\$Dj9A93EmU2  
.We\$.#\_4/ScDOwQ|X1|]n~qPHr6#5F&)0432.1664651/+xrrpgYXehejjcdq{umaZW\_^VJB:65:=IZcdcjy|sjjq)XrtT2c  
S: 5DHL\`6yr %e<84.\*)),,,"\*+/1/167869>E|zdmqztckmw~}wm-L.;<60.\*(')  
"% ,15:<>K]fhd^ewxg^accfo#Z\$E;&+RoB)Gc+kbQ&  
?Rwh~bwS~WUueec  
e9))2;=:62122367-&4uuwvo`UWgkhjnju\$|uqmjgcdcWH8/02:HVBnxunmosshisquv/5/~^O4  
2<@InMepmJ)=730-+..-,%)(+0.-.14459<C\_acgmwnenvx|ytz{.5440-\*+13,"(-  
.6:9?EJG>48DILMD9560&)4BVdrP.@43H{sF("7Ut~dF#\*p(/ ;OdyMAeLVt|t,I2-4;:=87541067+  
nx|uy}wm[NUglhhsxx<~mhiebgjcSE:40/7K\_pz|}vonnigcgsEXAvuihVG.

.7:FbXF^df  
G431/0-,,,,.341.,-032338=\z&qdipvxvxpmtzXu|z-342,+064+\*  
%1&).669==8.)//22.&\$(5?Vq:9UXXofRM|z+[DB<"S[q#eB6),9Ssm2vXFEV`hr~ng^MF9\_8/49<<:98::64265'  
yuspqssdVPT`haev } }~N<pbdgd`VG73:<@Γs|yyttohmxOctmK"[Q:#

!-)-<WX9Vfv9I-h431-/01/0038650, //323027=YAx|@mjpsuso~{~yyismq|~wuyyvDVX-430047/%)2,

%-59:83-\*,"('!

"3Hh,Fmqvkgx

R

z'C/P/[b\_XZipkjsewV=#7PayqbtzRH7`A537:<>9::9;9742+26@wmicaccd\_XYZZaci{ }EWlhimg\_ULG@;4>JU\_  
lvyzy{.qod)wRL5

\*" 1R{0SIh[@2101343235650,-03221/04<K{BE|mqlilj|vtv|yorx{ { |zwwrz#364386.(+60!  
",478631,)&%\$&((!  
I! ?fv } wtu/eXV  
5SV@oakxy{ wpmwr?mG"  
?Uis^zk8hO;05464::888;;884\*tvne]^\_cb`cda]\_ky{z7^7viimoj\_PD?=?:>;@Qclqw{UiL}pR[MI4  
,Mj3ItYNP5323221/2220.+/362220.18?Yy%.rnnecmy{uqx}soot|~xxn(443541./42\*"""+15983\*\$&#\$(#<um\$N  
YQOfoaq+U0fv=

\$0l

mWNXp~s]OMVY?)W)&@Vgtvqy|wmlvG  
]I?3,+..249>;57=?;80ztrlcaccbcfihdgv{ ww~~{s{ m[ { vsmf\ND><=A==EYgnqx { yumhkzyrv@xzNF:.

#F]3\*fsxGIOs87842001010.-/2501473038;@M\_w0!zktlaan|rmp{yqos{xrr34G(1123/,/1.)\$! "&#(5<<4)%%" !\*%  
'Ne-.:ZsIO?Bp&pm)7  
.\~[D5\$5^ugI6/6</uY-&=P]a]]izxI iR@81+% '-5:~924:??6"  
(6Oroutnea]X[cjmor{ { } ux } ytw } X|@|reWIEB?=>;>BFYaehmi^QEDPhE#)ulyosE?2#

9VhLfrgJ8853311322443543574237566=EOflnwp[Yeqyphkyzyvy~&-22/,00-.,+)(%#&4:70)(+)\$ "-3+ /x  
1[~oJ5,+EoUu|D'#Sc\$3 #L\caW;!\*# wT\*bJ>G\_x5GMNPF 7XG;41-  
!".6;=601677/exjhszsi\_UMN[kty}z}|xuuxyxy|.qbcqZNC;;@<95<ELRZZYTOH=35Db8QiI^D8,

.K`rY!cw)! g<53335644365132563/2433478;=F}O5zpo\_[]klv{rmls{ ~  
,2.+/51,-/0,\*""+353/,\$)(\$# %-0\$+J|b>2<ACTm!kz@%wM"\$M-;S3976<5# j>|/-Ge "3?Kc}mQqR@;1,)\$  
)379<8231+#  
qfepyynbTKM]o~}wwzuttwz|]n7ulb[VN?97::617FKORRJE?@>:<FgQZdac6bfU?3-

"@V

Ddy|P9?5038564463.03130-2532114556:W1Thkd|V\er{ropkn{}}\*\*++260-.12.-  
+"""+0110,+(&!\$&)&2\$Rw}gH<N\_\SXI(XJrjL'  
+X""\*\$  
i,s<5No%?S]\_ehc[DhK:24.%

0968::43+!3Kymhgkt{r\_QO[kwyuvzvspqtx~>z\_l]Z[ZVJ><??>:6:>FGJJB=@BCADK`f@k^XKtQ;,'

;QKEVsm4P35657523323530.+/31233111588?W^cd[Qqentrp|khir{~Zdi",/55//1220-)&"!..0,-/)\$&%  
Bf

1Tir^AFcjYOS\_';+rJ\$#<fY  
\_J%?\z)#\_MC4/.)!)/6789:3!  
\tpnmnfjrnaTYn{~}}|tr{~uljjmrv|#w?u^TQVSOFAAHNEA<:CBBFHACIJHFGO^|S#Zc[BEaL4\$

4H\G7\*idi=mW{=343/0//04470--121//1--  
46435bE(\YeaVP[egpywlehg`coz!,54.2520/,+("##\*+\*\*02.)"LSDpkI@^n]OM=DG\>"  
-J]9o!Q]\$\n  
2H s~XFCB930)#(230268761(qaahnla]efb\_jz~zz{uqs|{pfeebah}obqVPKEDDCDDCFIE=:<=A@CFEAGKJHINW  
"d^V&=WH1#

+DYu[hocL41/-./3331.-101.,-\*/33//2I2EjVjj^NN[fr}wkfghfdj]ps}13354.-.0.+ \$ !!"++.(%

O8uQkUG\_laTL)8P  
6z@!

\*N>Wp  
j27%5GSSV\_f\_X[iz{kVC@CA:52,\$#&0;8104552\*  
=Z TV`ie\VZdjoy~{z{zrjghf^VfbxnM?@=6259@C?;:<774:<:=<<::@CCBSH=Fc^EfP=(

'>Uhv>qxr '7q84/-.-0.//11-.../\*\*0320/127[WfjbPIUfoskhkknqnmtpn}7Ic)1242+.222.&! "\$\$&%'  
##!  
D)j\$WVHTWNLi(.YnjFw/<  
)LGfq}&:,026;?;43AMSKG?BFA750)).108?;10364,  
Qk]SV`gf\_[`hq{ } {xrnjkpm]X|N4jI<554.++2::523540542034420039;:Ozr`hd)YuTJ2

"7Pcbk{xRYH41-,\*)+ +////-222---130/20-+c[RO[]TKQ^iihputx~{qu  
!()+0621.!!#%

!&("  
9"e,>=B<..4+34l%B

-[Mu#  
/l4 %)+.-+,7AFED<AE>3/-)/487:<<4101!xtd\ZZbghfhiq|x } {wpmjmrmbn(QS:430/-\*+242.-/..-1,++/-)+/-  
148[k8mka>rP@. 1M`IHLtuj ~g4/0.-./00---/10...\*/-020,)KD3OANY[SOTalqu|zz}  
/ -3413/,%

#+(  
:zb0F>&  
],Y, 6jP~ pQ^\$(+127<@A?::?.,&(,49;8;=;74-(!  
4sgd^Z^\_cgot|wvy|xtwwrqlmqjorgaF;/+/-,\*./.,+,)+)\*,&(-,+>qMNYhf@0YG;#

.AZf9  
fqwQ6=0010//00\*,,,-\*,-+/.010,\*?.DX@LUZYON\knp|z{^},33263/  
)\*\$4dDLQ7k;o=  
5u9e# wD>  
\$&#.359:>><7882% #/:>>=>@<4\* "KftehaYTUTWXclu~xutrsqpsz~yooquvvSjdH<82((+--/(),.)+---(-\*\*\$(-\*)-  
GT,dbV(VB0%<S\_phCvvCV32\*---...+\*.,+\*,,,-.01++8PkCKPUWROX[ais||{ }yx|  
.55573.\*\$  
%%\$

!N174( 8V3

(j3Jm' i4c\*,"\$\*+-499><764.% +;A?:;?:\*  
Q}dgj\_QJJNQX^ht{~{vsqswroorsnkou|Bx\_G:343-)\*+,-,)+',/01\*+)\*+\*/-1X91Wja<YiQ?\* )6K\ex!rCjo8,(+.-  
+)),++,-,-,-)..+!-13ozFHJPRSUSOTdlru{z~~yxz16M &3687.\*+\*#%

5\_BpZF!b?!

/:Dg<Wn

g>L(,!(\*+499=80/, ")8?@824/zeagh\_RLJPT[^fqw{~xwsuw{vknmplhmvx.6hD751-0.-\*\*),(,+.\*\*&)/.++  
.+),11@r3ec[,R`O8%

&4DTat[oH\*,-,)&(\*+---./)\*-+\*+)+.00VS=N>GMLQRSQR[dhsx{wpv~x{\$264,,0/#

#, "\$\$\$&\$

#Iw>tx`H0s]E.:]u2V}m=g2

\*4.'#)1752/&\$!-526<>6-' ,Sj^cdfbXQTV\`ekottusqqpqvuqponfbhlshH|K=:3340,...+())'##',(+)-)-

4PcMcZKoXF2

%,<JUco,x~{4GHt5--(((\*-,-.0+),-+\*)/,/0A0XZ7CHGJOYXTQZhqy~najs#15.--0-,%

\*\*\*\$!""# #%&&

3Q}7chH"mVLC7.# ,Kg\*TNpG

'65,!""#+/\*)%#4=:::1#/\_[[aded]Z]cgjnortsrojijjqssvrib\_a{?QP9;95263+,...)(\*\*++-,(((,+)\*)\*\*(,8b ]\TV{\S@(  
#(3APZy0YszY|I0,)\*\*(\*+\*+\*+\*+\*,+\*\*(\*,+-.5{[m6?IEGNX\UKUgno{rhfjxFJW!,,')/0//%%+0-'((&! \$#!"\$&\$%\$  
1GeNx~j00

oYA1-.%\* );Me#NphB\_=\$17.#"#!#&&! %&(2;<=:0XdSU^\_\_\_\_[dmrwxwuutpljkhkhorwv\`ZmhjY=41942240\*\*\*,-  
-'&\*\*),/)+.+,+(-,)\KiaN8oPJ6"

"/9HUa

j.n|i0Pu3---'()\*),(,\*-.+,+),+,,)+0bO=;EEHLV\UR^dbo{xmgfls}| \*022\*\$"#")060++-)! "&# # !""),)\$

/Oq'\$mK<4"#!&.9Og '\$(,3=C<7)a8

!!

\*1) ! "#+/1049<91{h[VSZ[[[ahs{~|vtvsvpmolhioutun\\_Rj-i@7100313201+!+,\*),\*+,\$&+\*-\*)(%2Xceoi6s^O@-  
"(2>GU{H\uuRF41/"\*0/,))++,\*),,,(((\*.QC@F5BHKLXeh[POT]apv{uqnl dap}tt~~) (.51,+!&/3-)\*.+,))\*\*\*#!&((,+('  
-E\_w|jXC.\*+""!

!%-:ITevqX@%

'.&"\*5995352-&e\|YUZ]^cgkr{~}tostsqmnojmssooh|yPyByF842/-,/220/2-\*+-(+\*+\*&'!""\*\*-

+((+>zY5dl\X|WH9\$(9EJ\_j/ozx5NDv;52-\*-/+.))((()))\*,-&(\*)-?/QQ6EILP^fi)ODITajqrmqvsvd`ouptwsuw21:

\$2843/%\$).+\*/1+\*+\*\$&&!"\*!,#%#\$&##! #2=ELMLJJIQOD;2((,+ \$ #%) -23;BINRSTZYW[a[PLNE8-#"!"" !  
&13'

':@;842("@k^|ZXafggornot|}voloomkihlmqvsngbl3nG2142.)(\*1///1.,+\*(,)\*'(%#\$%,++\*)1XkLV]A'gWD/)2=GU  
O\xkL51-./\*\*,(%)\*\*)+,-.&)&(\*+9M^:ACHR[\_a[PDELYbffhpyqgcpzoo{xmnuu|t|&4880' \$%&+,+-.00,)+,'&'&%+  
\$!&# +18:63324.;331)))\*'##!.110-131554377;=<3)+3/&

!%--.+\*+\*\$ +55+

#,2<=:32'!F^j\`bb\_chmlorvornusmifgihggiloopqk{f}-V5/0/0+)),\*./-./-)))))&%+++\*.)&)+,-.x\_=ZTNe^P=,

!-8GRat.j{-Cs7/.,+.,,%(\*)\*-

.,'%)\*'&,9vAq:5=DLQUYZTIAAHRY]gqqjegiq~uputkhpvvu&353,&)+'\$\*+./0/+,/)&&%&+.(!"#"  
\$\*350))(-,-1+)\*+'  
(&"(155101/+.-,\*, -162+\$)0' (+,./11-,(&%#  
\$\*01)"24:;70)=e|pX\ddgjppnmpspjfiugdca^^afgkmkfgf[yBe9/210-+\*/\*-1.),('(%&(\*)\*)&(', -  
3Sn`fb01dWH5&\$1AKRyUY}VE-,+..)%-(\*+,)&'+,+()07e=  
6)5>DEHPVVPF@?CLWepmhed]cs~ukkrvuy  
+21.--&#(./230,++-'(('.\*+\*\$  
  
\$)+\*%!\*%(\*,.,+)\*&\*,)(055/03.)\*\*'(&&\*--)"#%+,).1/-020\*&# #\*-/," -  
2548<5)Q~`bhhlhurlkpvngfhbaada\cgjmoe^ZSSyh[k;+/31+.,)..(1\*)'+)"#\$%)\$(&\*+7giJnm]t[SA/  
#\*5AH]j4t[w8MMv0\*-.+&%\*.),,)\*&\*-  
\*\*+.13U<#2#1:<=?ELSUOE@=BRelmjidY\fpzqrst{B>E\*1//.)&/20,011/+(,(\*+\*\*001/\*  
\$(-,\*&\*/\*+(\$)+,,\*/42.-\*\$!"#  
#%&#)/0.0.+\*\*)#\$&!"\$#)./1/""+48767:.]npqvqnlpummsuommkeadfd\^dggkj\_WNjNgmu;///+/0.\*.+)-  
+,1/)+(+,\*)(1&&"\$\*\$.Cl&epi=:jYJ7,!%)-7GT}OWk|nD-0.)&,1.+++)\*,)\*.0.-  
K518#169<:;BKQLEA::DZaimomfaadkyttv}{ {k(1460+/3/,0./0)(,,/,-,0/2,!  
)(&))&&'\*-\*(.+)+)%/,0)/, #&,-+)\*)(%#!,& #&&)\*\*, -0/3/"\$ \$ "-  
138=<;81!quu } {vrmlntuuvwtuwrkhhkjhb\_`bfaYNFe@fC-+./,1/.\*((\*/0/1/,\*+ -\*+\*% !,(#(%(6hMie[q%b\E2&  
'(2?Lam"s}2S]z94-\*2.,\*+&\*,,\*\*+.-\*+E'?G#,6<<639FKGDC=5:JZ`jqtpja|cs|wvy}.572--01140,-+-.0./+--12-  
+!+\*+.-+,( !&&'&!  
!,21("&&  
)\*+.-&#" %&\$\*+(&+&&\*-/03//.\*&##%,37867;@:0xttz||~xrmou|vwwuuzwqnnmij`Z^ed[NCX:zJ2/+,+  
\*+,0+\$\*\$,0-0-,\*/\*)%&%+&\$'()DvD%hbb91k^Q@-""(3IWNve%X6.00+\*)&(-,\*+\*)+.-  
+/CN^#&4>?608EDDFGA<:AN^eloqnaYYfv~}xxx{xz  
#-10,)--260\*\*./1/./..0+\*)  
  
"&(((#"#  
'-.\$ ""-./,!!\$%\$\*\*/\*.)&%(+.3.-+&!5<<=8787/zvwvst{~uoqz}vptrxzuplecea|blhSBIQ5-.,')++-  
+\*%""\*\*+),(/,\*)&\$\*(2)ZplWe!hXC/"!\$-C|n`-sy<p?.+))')\*+\*,,-/,0;yOv(-  
?D94;@?BGHGJDAFXbadljaXTWew}yyxu{xwy) &\*\*(.,02.+//13,-.+0/-+)"#  
  
%),\*&)+! '\*(((% %\$(,++11-,\*&)+(1.0/-  
+&!6;68630()lpzvpuyxotzyqklmpurke^ZZ\_eil\_E?rt.O62.+..\*)+\*+\*+%'\$'+\*+\*)\*+,\*+##\*+)AvM)tog5}&lbR;-  
" #BTcZs{pF\,(\*)&(,++(+.\*),+).4aB0\$6?<9>A?@CFMSRGEPPXZ]hif\_XQUhv}upy~~~|THB  
\$\*/.-,+01480)+,430,\*\*(+'  
  
\$#! " ! ## &\$\*-,...)\*)+.(1/-0//,%(-032120)++&\*+&tgajssnpvz}~yytohcijlf\_ZWU\cd^M? UNZ3011-//  
&\*\*(,)))+##(,++)+\*+.-)(""&)\*4n  
2QijWXcYE3(!,8L|hP\_sK!8\*,\*+)+.-(+,+,+),+/1M+--,7=>CED==?KSSKGEgn[ciig|QQYgt}sovxqw\_&-  
210+,+3576/\*(./4651/.\*.,% %\$  
&\$)\$\*\*&#" \$ !%).121.(+./+)(-/+,/42/"\*043464) ngdfmrrrx~uldXUV^ehhc\WUUVVKAX8gq7-0001/0/,%\*, -  
)&(\$#'-.,+,,\*,-\*(&""LXWcb3pgVL8(  
"&5DUYv>mqpc1...,\*+.,+,,,-\*+//,,+<30#7?>EE?8;CILKE>=DSafgf\_YVTZj~tnrwxsz !-1.\*\*\*0551-\*\*\*0121741.-  
\*+.(#"#).\*  
'&\$""""% !%&\*,/-10,'2.+)'./,./11+%(/2435/!ttuqopsxy~|ykaWQRXakqk`XTNLE<P&{B+})/01/0-&\$,-)&(&!(-  
-1.+\*/+.'&%6v'bL\OAxYK9-

#,:KP\_l& IVXG/1/,(,\*+\*00/--+/,)\*&4x1d ",4<BC>:?CFGKH?9=GPZ`aa^[XWcs}vrs~}}  
++')-0320-\*24/074/,,\*+/\*&(13, ""  
#+,'&\*)\*/-.00+(.4.( '&.2101\*+0-'&/1011)/z/zx}zrty]wod[VTV\_lmbYQLC6E'M1-\$+00,\*-/#(/,-)\*\*% "(+,-  
/1,\*+0+\*/)-Q:/a^VM]Q?, \$1@MTtoWz&0P~=-1/\*)'++./-+\*,&))&(2m1w)  
+7=;7;EIFJPPH?<<CMY`\_] ^ZVZesx{ \*% !\$(/000--0740045/-++-0/,,22.+++)&  
#).1,)\*+11.--)\*360('0'+(\*'z8~tmhqvuuf^\XTZfge\_TLC4;  
@Z50."',-/\*-0.\$#+-.,.-)%)\$++./(-,)\*+7}I\|e]@wUJ4"  
  
+8ETYNkycZ4-\*\$(+.,+)\*\*'#\*\*)\*4d. 0#/6307BB>DMSSNE?>EQ]\^\UQWewZ\_c'/0.-.07720/01.,+-130,+,-231-/+ "  
+.,,-12.)\*+21/.-)+13/,,, -/23/)'03( g%|rjdbfmrmmc[[[TSZ[VOE63sSd7.-./)%+/-,035)\$#.-\*-./.%\$(.-+1-/+ "  
/)0RwOmeY  
.ifW@\*  
&.=JSeN8p{/eC/\$%%(\*.+)(%&(,,,-2[+"9\$-2047528@KSURI=<FPZbd[UQTYjy!,1/-./264//--)))-120,\*+,-43/  
.230'&%(37200.1/+)--2201/+\*///121/0,+15( ~wrh`]]bovtg[X\SOSWXSI:1\_wo;-\*.\*&\*.+,262%&)0,-)/\*\*\$,-,-/  
/+0.0,>q<!rrhCps]M7#  
(/=HW<wbhek.\*"-/\*("",,,,,,\*P 8O  
&05311149AHSVl=39ESaf`^Yw]iw '0//.240//32,)\*//,--.1630,0221.,,% "%+.)(-47.-1011+-  
00/020+\*+./224200/..+),![-qs{yqohcfghrxrdZ`^UOSVRJ>0Ejx>0-\*++/-(\$)\*&+21-'(+)+./.\*"(-,+\*  
11+01>i8` {ubfQ>-!)0EXqb\*kvXFF)%-/+\*\*),//+\*,\* ,B=p  
)12589<=AOSJ<65<GSYahg`US\k|6  
\$,...-..031++./../.1520.01120.1\*)13.'),#22++/,\*)+34,+232+),.15421/-.-  
'!Lrjny{|vmlpuxvnmni\_^bfcZRPOD9/+d-@3/+\*)(-0)\$\$( )&(-1,.)\*\*&('.)%()(/.011;Z"v?wzq>=jXI6  
%/?Vb>:ijO7(-.((,\*-.\*.,)+8n.2&)+38=@?CKNG?:759@IZgj\_UQYdnuX@1  
&()(),-.44/-/010011/-451.-.0361//\*( (-23462#" \$' # "\$# +63)'/43,\*//5431-))%  
:zvsvytzylhpywfaa`\_ehfe`SH?3&&-u#^J/-.())% -20)%&\*)#\*+,\* (+-)%&)/-)%&)\*,-  
03GRdvrC`!XNC5`#.L\_lp~U&U011)(\*+\*,\*+.,\*)-6ZG "\*"5>@@CDDD<@9976?M\_d^XZ^\_djuhE\$%%'+0784-  
-421240.33/0-+282-\*%'!'"/,12241\*\$!#)31)%-25-(-+/6632\*"%"gzz}|qhmuvl\_Y|cbggab\_N:/&"#-r  
j{4++),))(\*02-%)\*&#&#&'(\*,(%)+,+(#++.,8d xOpio4i\_JC6%(1DZfxSBo&i!A5-\*(())\*-.\*'&./3RW  
'5;?@==@AABC>9;CQY^bc`^hpv}Y  
%) +,2794.-163211-.0/40\*\*172---(/, &&-30\*#+1-)-00162-)# ! \$&\*21,-  
12+&'(/76/\*W}|ulhijfa|djifc^XQB.\$#\$!&gGl2)-.\*\*) (,0/+\*\*\*" '&(')'), '&'+-+(\$).-4KM(vtmS)~TE3  
!(;N]e4ujxtc;x6.+\*\*(" ,/\*'&+/-5If% '056<A>:<>AEGC?>AENZb`^ehjnze"&)+.2342-,3662/22/0-/52\*,150--))  
11++/00/\$+32+)./2250/-\*)()(\*+)++,\*/31/.11(" "\$+0-\$  
Gzx~}zunb`fkkgdkid^WJ>3("\$&a<i1/2.,\*(+\*)+\*%)&+\*)%\*\$&),.)+0;|dvwm/j\_Q=  
"#->N|Z[dqRW1.\*(%),\*%\*+,-.Dv)\$+2<C@=::AA>AEDBEOVUZajiflxb'.53024/035501772/,131+.011-  
+))1/\*\*-,\* -54/./-24.-+)-0.020/163/.13001000(# #\*\*  
'r~vtuorpmdeovukddd^VL<,(%###xCb.\* ,//+&')\*\*\*)"#&)\*,(&(+%"\$\*',+),0VfKpkhIYqUG5  
#!\*>KY|,Xkt={#B++%(.-+(%('(++=v1" '&'08ADA>;;<@GEAAGMRXbgefouwy|d 2:41341/2131498/-452-  
./21.++\*/2+%%)%#-53//2/+0,\*'&.32220-474112/.010//,%!\$'  
U~zpjmlikoqwz{tmc^YRG<\* \$#!06>P-\*)-20+)(+)+\*'\$&&)\*,\*((\$)!%"+(+1Cy9vrgMu1^Q;  
#\$+?Sf[Rr]Br/((./+(')(\*)7f8!""3;CB?:;99?FHDCEEJOT\_cchqpnx~m  
  
)5525421211/2770,153-\*043,\*\*(\*-\$% %!"#"  
\*//+,32,,,+(&/3232..662.000/211.--+!\$' A|){yocfknnpzvmh^SGC:."WR?),(\*/20,+&(\*-+)%%)++,"&\*(#%(+4B-  
ac}xhFeVD"\$:M\v2t-saL+&+/,)\*)(+,\*)\*4XA  
!#-3:<.:87<GMLIHJJIJNY^`ikihir|||{}}yw^!/,2432322/0680-141-\*,/20())%&'!\$%'\$%)& \$&#  
)-'&162011\*/0/011-0672,-1102354/-\* +8|zpcbjnlitrcZSG=7/\$/#Fa30))+,\*..-  
,(&%)++\*&%'())\*%#('+%#\*,:le7n){QvyYE

/\$#0CTbCI|w.c >-.\*"(\*,\*)-0NQ  
#'+05;:9@GMMONMLKEFNZRZbceghkpsxxvyzwtwG#,25463.03871-/21,..1/),(\*)"(-./1.14--./!\*%.1/(%1742023.-  
//./0/1594+-3423487.&  
F}p`^fjgagwzjYMH@71(!\$  
VJA/1\*(\*)(\*,-+)&'\*+)((%)((&'\$&&\*(%)\$%-MJZhqkKaP,73&'3HSgrUpv`?}<0-)'&,-,\*))&Ce!  
""08;=AEHMQNMQPGEFRY\bgggffjmqwvsxk"  
(1672.03864/0./11./0--.-11)\$&)-04542683"+5310.-)\*\*\*.04/('05432140.../0///285..2201571"fhqb`higcdhi)NC@;2-  
& #  
%%Qk8/..+)\*,+-.&'(\*\*)++&(()'\*%\$)',\*)\$(9?t[\_V[&lqXI]>@. \*:LUm7k\$lxif!e7-0,(+\*-  
\*)"(+s:#{(2:>?@DMMHKTSNGB>EKQ[ehfdfbekuvx]~y{E  
\*110355685211366313/0/29752..3125;:8832& 1761/046532//12+',1343.-,-,-01/-  
+17620//021#D9zw|}wlikjgg`ZOD;5.'%\$#!JX5G31/.-,+\*,-,&)))&\*-  
\*((),\*+&%\$)),\*0`nMp[N0# S#9G8&#/<GS"KQnja0t-J50-\*+)&(&%\$&)6d9  
#\*059>GKHBHQSRPH@;<ES\_gfkkeDirx|s|&.54478642589862121/5=;:9448886<>9632"486310257552-  
./\*05223.+\*-)\*.13.\*06554/..)#  
#k\$tsx|}tmkhfgyPE;1\*#"&##`r1.1.-.-,())+--)%\*(,+'(-+(&\$\$/1LK!ikYAUhY  
-AG5'#.=G\_xXchf-n:0,-\*%\$#"%%2ZJ ##&3=FIE@EINSSJ@76?LW]cllghms}aK)-  
244125765950/40/7=<=<548::8==4242%%366430145473,-//,54661-+)(+\*\*/61-35353/-,%Euu~vnifefbVMB3(#  
"<>9M+,+/-.\*&)/.\*&%&)((+)))\*'+%\$&&.2CRWnfz^r`9KF0#\$4FTu9w%Yj~mah.-+)"#&&\* '&0SX!  
#/8@CCCEELSSI?88?DFLWglhio{:l  
!!"\*232.32,-41/6;:=:33466576-.34((03546622433301471146863/,+0..17524531,)#q n}{zrlegieYOB0# !!!fJ}7+++,-  
,)))\*&'(+).(\$&))(+.,&+&+('&%?.?s8Gkjkd#\*CPH1%)?QbGArOmM.,&\$%&&&)\*2Mk)"#  
!\*07;ADEIKJB:8?DC:9H\ceghlquz8# '&\$\*/4682+),(\*+\*&&/1)!&.4;98712740223894/389741/-3882367442-%  
@O|w|~{zqkkm`TD4&!"!7-AZ2+\*\*)++)(,('\$+,\*%((()\*\*.'(++)')3aGu.lnn]Pf/NZI-'0KWckpl^C,')+'(+0FC  
!\$"#,2:>AEGFA<?HLG93:IUafjhgelw]]  
##!#"./029@<8602642678;:659:9976438;84003/\*%  
b|y~z}uqonng|M?/\$ "jUI2+'(++++)((+)%,,)\*+(')')\*,'(\*,+MD^srf#[g  
:YYG0.;OTj\$R2nie["i8+0,\*'&(\*,1Bqf.!% #"\$)29?CEGD>AINKC;9;DTbfca^ft1g  
\$(,6>92/.255787=>;7:=<89852254/-&#f |~v|{xtqlmmi[K<.%"!>;Tw;1+((+,-+\*&'\*+\*(-+),-  
\*)'((%)((++\*.D[kih>vtQ\$?jaN76AQY-9X`qbk\*q600\*%"-+-?f?! #!#3;@BFGAACKNKGA9<ET[\_]\_ep]~IX  
"+30+),13386485/+241-/,)&\$& !Ezvw}y}wsrtrihmnbSE6\*" \$n^,Q6-\*((+\*+)\*%&)\*+\*\*,,(\*)'(((\*,-  
:z%KYxpeFn@V&Hjkt=<G[gQ@j{|Jc70,\$'+)+6[P%"# \$+59<DGB??ENTUPC;<AJSZ\_altvsz1a %&\$\*\*\*)+'  
O" ynjoxwpklsqg`dh`VH:, D0Ps:2.)()--+,%)"%\*"\*)\*((\*&+)).8caC{ {u^f  
0RsqX@ERbqbsmi,m.}8\*,-)-0PY)\$+/5AGD?<ALW^XLB96;COYakmigjoxu\*  
  
]rfgmywpputuqh^^b]SF6&\*rC&R/0.-.)-.-\*"  
#"+\*\*+\*+\*'('.,+\*5XY\$nvpk+\_o3Ywq[GITa]e#X^ed4T60+\$%,)/K|W("&/>DEB?AIV]XQH@978BN\ig`^ahnwz~  
:.MEIsikuznmyoecbd|L;+G7}=-.0/(),\*+,\*\$ '&\*&'(\*,-)'+/1,0L[mle9]v5[yuZ@CR`\*-ShqXzV:(%\*(&2O~R%  
(4?FGGEHNWUSQLE=79BM[[\bfjnr]RUPzU4zsv}~|sjqyjeioj\J./x&W1,..1/)%'(),+)\$&\*&'(\*)+)'(\*03EOFehiD  
o:7d|oP<BM[ND|p>}XY5,+,5RS%#,5@HKHIMUTTVVSLC<8@MQT[bdkpdx{  
0i~xyyzz{yusmjwumjuwm[A%]ZB,(+0.0,\$\$(+\*&'&(')&'(%%\*+&\*)(+0>y"BAhfhU  
x=h|lN>@F!gwd@MJ\_D<<<?Y)("\*29>DFJNSTSSSWXQC:?DHIQ[adgmuz!C6\$|}{tuxvz|~wplilzytx}hM3E  
Z8,+\*+./,#&'\*0-)&)(+&'\*#)))\*(-  
=h],dje]M!ApmL?>Mn1h)rvxy=\_0?wb]XXli/!(+\*/5;DMRRPJRXUIAAEDAGPV\af|px|}{|' #  
  
P?I~xstrwy}~}upmmmqvzWx<"-tzF10-\*+--\*)\$%".\*((()'+&+\*&\*;fSTfe|(X%GvjHCFU(~7lrI&\*vsu9!  
!\$;.FMQNEBJQLIGFEA@EIOSX^fnmqv|4.  
K?I~{u}z~{sttpjglw|'?&R\_.;./++-





(+/-,+++/+/-)-,+\*.13K1#EXo|M"Ep{1VLJskIO}}\$zob#a  
%(.79<ISRU[^[SOQTYUYUSV[ZWRNKOUSWcmsx{zyz{~~tgbbbdnz{rnortx|~|vussunu~zssvohkndSJH95\*)W  
mQb`;+/,/...../+(//,+6Q=Bisit<

#FosRBGZvKL|6p@u"  
#""\$).8ABKWad\_XQQU]`e`[WTSWUOQSQOZbehlicgk~|~}}yuspx|rfabeho{~yuruysuzvmhfgntyypqjdij\H>;91  
\$!#  
'V`J\_yoK/'+-,-0..+,-,0+'+0./6UIN.q=  
"FqlOGUewEH\$qim(

"% \$--  
0<J[b]WSUZ\_bif^PKQXWUXXQMPRW[^YVZ^gqvtv{ }{ww~yrv|vux }xtx }ytpopzzvwrkns|y }wlkqywmgh  
px{vpki`[\_R@2,\*#  
Is\l=(+.-+.-/+\*./,%%,2<)pu,p}C#Fi}r[PV^@Dlehj..

!"  
!\$\$%/@OSQPS[^\ebVMJPYXYTZTKHJMSWUTW]^agkknpljmxqnpw }z~~{ }z}uux }umjpyvsontxw{zv{ }{||w  
qjgouwqnsuv{~{trmf^RKOLB3&  
6qqcN6(&'\*+.-0,,\*\*+01%\$+?l+m~|l  
"Ahz\OOTf?.QP g}sO:

!"!&1;??CMYZSW^XOMPTXSPTVQKEFJQXZYWUTY\_gghdaehnumjhjou||ttwzwxv~{ {ysz}||{~tkfhpwtpnpy  
~~umknproox{ xvvqkid[OD=:5(!

\*X\_E2(%(')-/...-,(//.\*@yIq}l"Eoz`KFQg0:?\_u{-pCJ

"!&\*(+2?JLHPXNIPTXXRNQPLHDGJR^a\SMR[add\_\_`ekplgha\_emxuonolmoorwuy~yw|}utwqnpqqv{xnhhnx}  
yssxwortnmihosrkje\_VPF=5\*&!H\_>1\*'-(()\*,+,./-+69I^j\$Ac}eOISf 4Y}B/  
b\$

"  
%1679CHCCLTYXWWULHECINT^c`UPPSTX`\_\\\_chldde[Zahswmfghdkmwwxztqqsojovpifgjr{tmkrz}yxxxw  
uvxz} }yoksvmea`dhd^ZVJ?7/%\$  
GO62+).\*(')+) +,/06Ef+\*/V8`pUMZm ""^VrI.  
%\$&("0416AKTX^[SLIHNPQVZ[[[YWTX\\[[Z[[bc\_ac[Zcgnofcdcbchkimx{y{wsrnjinuskosx~~zstzwrswyvsqtssrn  
knottywogdoqf[VVVUSJF?6)#  
'ci?//.++-(+)\*+ )9Mu^AZg]~4Wu]S[fPz{ }p/

\$#"

#&##.:DLV^[VUYWPLOTY[a[]]^ZWVYZXY]W[\_bfcfecehgotux}zxwsqtvx|zy}~~woecfottsrspiglopqsrk`  
`ih[RLGC@;7/!

EU3(-\*-.+\*+(\*,7W~)s+QyzaVYd/h)|DC

!"+7BMT^\`ee^UOPsx\_\_\_^[ZWUVVVVQQRPW[WZ]`ihbcfdkmsxwyxuux{ } } wttqotuomrsqrj`Z]fswvtsqstrkm  
qrnihkc\Z]XME@80\*)\$

4wxB+\*.\*)\*.+\*(+).</r(R{zcWWe'z4hB}

!(6>BHKOUafe]URRZba]]WPOOSRSSOLKOZb][Y[fe]]`ad`ajmjjjkorqtyw{|xqs|}yvoljmlcehhbaipqpeYY^isvvq  
mmptorrof\YZWOHC?94."R\_8,)-\*--+),0?f=Iw+Nt~cWV\_wic~(w8oF-

!&)+./17=CJRQPPSZba`\_VMLMPQURMKKO\kjdZX^[UW]`a`\ac``\_`gifcb^]`dc`bmnmg`\_bikdcefa\_gppmaZ]birs  
rmjgprieggaUJBDB91))!`\*?qT80\*,-./-.,.AnwR<\$Qz~%En~eVQYqQBa\_VsZ?

!\$#! !%%%-

6=EHKRWX`b]VSPNPXWQOMOZhi\_WXURT\bb\_^aeddeigaZUMMS[\_aikia[\fideeb^^dkhd]\\_fjqpnffmi\Q  
RRK?5/.-#0KgS:5./..00/2KwV{||ClfRO\r,"J]z"V-Z

""

(.9ABDDIU[[ZXRMRZZWUONVafjd\YYVV^ffcdbajmkifjllaXNMU\_dfhkoqf\_\_cfd\_\_b`\agd`^acefhefe\_\_d^M?::

4\*!\*Mm

WB>504447:@aA8f}=jcRQXg Fy=[C.

"

#/34325@HLPRNKNUXWXTSXadh\_^]WSYdeefcdmndbdipi]UX\_hhhijosja`ei\_VW^[Z\_a`deb\[XRPPJHKF8  
+(% !?c[dWOJBEIHRd`Ru!`fgPHQ]#XsRG

"%(\*)&'.47<BEFHNQPUWV`gfkjdb^VPPXZ^achoc`][\_eaZZaglhgjikokbbij^QQZ\WUWVX]db[QME=<9220+ "-  
MrzsojbgmuA\$fuv#:`|bKFJStj{\M|w!`Li

!#%)),28;:@CAINRX[Zadcb`]UQSST\`hnifhaWSUROWbggeekmmkkfacbYRUYZXWSMNSVRKB<51-(\$  
4Y[D"An6]zwgJ?HXs@!GnkoFk4

" \$)\*(-.-6<=>==DLQRVXUQPNNRV`ebchcWQPMKQY\[\_imiffaYWTPU[\XUUL@<AA;71+'&

5^6xWtv1UvlnIM`v Qb{f&Y

'+\*#%,49=@EEFJJFDEIMJJQOMNNIGHJLLNT[^XWXRNGFCGRSJF@9,..)(\$!5c  
m6q~PtrYLSbi{ }Q't'bw6

\$#&)(-1445:=934651078<@D?<8:<;=BEDDECA:524;92,(\$!#  
3\  
?! F}NpxbSRSZvO)\$X}~yGc"

\$# \$&)((,+(\*'##\*+.01-\*((+)(,333320)&"%\$-IzoSX|h|TLK]v\*dpsz|r0nd9

!#!&('%#!" " "%%%\$###"  
'3?NXalpmu}%&h|p\RW]d{ }UEp\_m

" !

\$(\*3:FQOWIC,<8Qy|IXOO[w?lru+~L#

&-0<p(loQGIRg|Uw[5/28

B@,;2O{ISFFTd[+\$0ou1l,

\$f1fu]OQ[gt kRqv|^rrzK

Ipptmm^VZ^kf1% "[yY&1#7;

!C0TbQQ`jrVNxw83

:!PRV[fU`r~hwf)

)pyCCPUfiB9l{NVyw\&

(gZ?CO\_~==~Lht}yB(KNo[!  
+fic@HVblI/Ls|`.EjY"

-lQ8TW]qp03lwrpttW-8\Z\$

,kjLNQ]Lo5Vlv{ytd-#;g\&  
0ucO2PXi@zEpsqq&1Ape,

2}~Z#U]r  
`4BZjwo/0X}@"

)Kk;\zgMr]"cN"

\*[@EZyGp+&\_hkowudT0]J`.

5vp)tO?Cgv|np{vV A=

\*Tn;Y-Rssr{\^,[1

3iT9^{#Ggz~wz~i/[6G\*

\*PK!WiDhlgI{~qPgSB"

\$D[qR,Ogv}{t?u-v9q>"

<o9p.2g%Vmrza OW+oA

:n"RD Ae{sT.L4{F#  
\$Ew%Nn4]lr{19+  
fJe7

4[DTO<e|xn\_CJ\$O/

#.Lx }!|#Riw~vt{ }Pe``sK4'

1N|TQ+WlonvteW7=A<a`?\$  
\*?Yc6#Hh{yos||cC.Le'wP8)

'<Tv-YAN^p}{xtwtj\H Lz% }/iN>.  
-:Pk-{/oqtxzyw~qZ2SsNZ jPC2\$!\*9BTu%dVsoxrP=8'x:FR~OvdOA93.&%%  
!\$\$%&1;DSbq#QeP~poqXD5:s=s:zS6{xtqrqllsrprx"<X~ <x DuwzznaK1W0  
sN(vU9"&5Mg~

0R~}hYPD/  
zdI/)3C]q  
NUMPYF{'descr': '<f8', 'fortran\_order': False, 'shape': (15, 15), }  
x>2r>OV?j&? 85?I>?h~A?I>? 85?j&?OV?2r>x>\*>HT  
>HsZG?E0\$I>?)aR?\$IILa?i[DQ+i?A6<l?d[DQ+i?IILa?)aR?TI>?E0\$bGsZG?r&Y>\*>&")?8Xti?gc?  
w?BX?2lw?3k?lw?mX?w?xfc?VdI?,{"})?1dZG??>Ntl?:CQ+i?G?(a?mA??4?X?sN<?&?4?  
A??i"?a?N@Q+i?A]tI?\$?u;O># c?b{a?6^?R?4?<T?xTT}?E{T??HR?,?ka?dlfc?U\>?>kz?  
/w?P5???)?;Ox?!?.?5?.?qS?x?\_?\_2=?{qw?X u|R?7f3&?Th}??k%?e?5?/?B?x5=?#? ?W5?&~?0O\?FS\_?D=-  
?:h?dE??q?]T?&l?+?y?:  
??S? D>zF?6x?;\$;f]WFfth?b#?|Fe?cV|???S  
?:9 ?OBD?:s\$]?vZprqdU  
`8o|`oF?[Y.I?Z]  
?2#]?3#?\${?w]T^{nuG|nbWLi<uy,sa`XJ SH8\w]  
N|6|\*QhR'n{ { :pW|\gn&(\>0Ln`0S]8rT^]y(Pf\_  
u9A #Jwf+Fo46wssG\_h\R/[?]`oF?XJ 1(6uDvr.tA64ZPS?X?.my?pO:?n? D>zF?b#?7-?P:J?  
.[:?ssG'HGA\`sw\_ip0'??\$G?kLb?~fv?0O\?>?ti?:h?e  
?iLat?lyD]?Xp  
6?v;4h2"fx

This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get\_sample\_data for more info.

NUMPY{'descr': [('date', 'O8'), ('open', '<f8'), ('high', '<f8'), ('low', '<f8'), ('close', '<f8'), ('volume', '<i8'), ('adj\_close', '<f8')], 'fortran\_order': False, 'shape': (1047,)}, }  
cnumpy.core.multiarray  
\_reconstruct  
qcnumpy.core.records  
recarray  
qKUbRq(KMcnumpy  
dtype  
qcnumpy.core.records  
record  
qKKRq(KU|N(UdateqUopenqUhighq Ulowq  
UcloseqUvolumeqU adj\_closeq  
tq}q(hhUi8KKRq(KU<NNNJKtbK(qh  
hUf8KKRq(KU<NNNJKtbK0qh hKqh  
hKqhhUO8KKRq(KU|NNNJK?tbKqhhK qhhKquK8KKtb]q((cdatetime  
date  
qURqG@YG@Z  
=pG@Wp  
=G@Y\JUG@Y\((tq(hURqG@Y@  
=qG@[EQG@Y G@[  
=pJbG@[  
=ptq(hURq  
G@[G@^QG@[C33333G@[YJ0IG@[Ytq!(hURq"G@[|(G@[fffffG@YzGG@Z7zHJqtG@Z7zHtq#(hURq\$G@Z  
=p  
=G@[G@YQG@ZJt,FG@Ztq%(hURq&G@Z<G@ZG@Z\*=?p  
G@Z=p  
J/6G@Z=p  
tq'(hURq(G@[fffffG@[zHG@Zl(G@ZJp/G@Ztq)(hURq\*G@ZQRG@Z\_(G@Y

=qG@Y  
=qJ('G@Y  
=qtq+(hURq,G@Y33333G@Yp  
=G@Y=p  
G@YzHJ%G@YzHtq-(hU Rq.G@YG@YzGG@XG{G@YJEG@Ytq/(hU Rq0G@X(\G@YzHG@X(\G@Y`  
=qJ4vsG@Y`  
=qtq1(hU Rq2G@Y<G@Yo)(G@XzGG@Y  
=qJpY'G@Y  
=qtq3(hU Rq4G@Y@  
=qG@YG@X  
=pG@YeQJl,G@YeQtq5(hU Rq6G@Y^(G@YRG@Y G@Y33333JD&G@Y33333tq7(hU Rq8G@YRG@Yp  
=G@Y@G@Y  
=pJG@Y  
=ptq9(hU  
Rq:G@YfffffG@Z  
=pG@YS33333G@ZUQJoBG@ZUQtq;(hU  
Rq<G@ZQG@[=p  
G@Zp  
=G@ZJ;G@Ztq=(hU Rq>G@ZG@\G@Z)(G@[](J)RG@[](tq?(hU Rq@G@[  
=pG@\QG@[G@\JQG@\tqA(hU RqBG@\)(G@\33333G@[G@\~zGJhFG@\~zGtqC(hU  
RqDG@\G{G@}\_)(G@\c33333G@}\_)(JWHG@}\_)(tqE(hU RqFG@]<G@^fffffG@]1GzG@]  
=pJ,QG@]  
=ptqG(hU RqHG@]  
=pG@^G{G@]`  
=qG@]u(J47G@]u)(tqI(hU RqJG@]YG@]G{G@]3  
=pG@]QJ9G@]QtqK(hU RqLG@])(G@^QG@]AGzG@^4zGJ/AG@^4zGtqM(hU RqNG@^<(\G@\_fffffG@]  
=qG@]QJEG@]QtqO(hU RqPG@]  
=pG@^8QG@]s33333G@]  
=qJ5G@]  
=qtqQ(hU RqRG@^S33333G@\_G@^  
p  
=G@\_  
=pJIG@\_  
=ptqS(hU RqTG@\_G@`  
=qG@\_QG@`b(JG@`b)(tqU(hU RqVG@`<G@`G@` G@`33333JiG@`33333tqW(hU  
RqXG@`YG@`zHG@`G@`)(JPsG@`)(tqY(hU  
RqZG@`G@a  
=pG@`)G@`RJtcG@`Rtq[(hU  
Rq\G@`QG@aP)G@`zHG@aK  
=pJYrG@aK  
=ptq](hU  
Rq^G@a1G@aNfffffG@aG@a"(J1fG@a"(tq\_(hU  
Rq`G@ap  
=G@a(\G@aG@a[33333JkG@a[33333tqa(hU  
RqbG@aW  
=pG@au(G@a  
=qG@a7(JTG@a7)(tqc(hU  
RqdG@a G@a[QG@`33333G@`QJOG@`Qtqe(hU

RqfG@`zGG@a3QG@`G@a,JYG@a,tqg(hU

RqhG@a=p

G@aG@a\(\G@aJG@atqi(hU

RqjG@aQG@a\(\G@aQRG@aJ<OG@atqk(hU

RqlG@b\(\G@b0G@afffffG@bQJdG@bQtqm(hU

RqnG@afffffG@bffffG@aQG@bQJ02kG@bQtqo(hU

RqpG@bG@cG@bk33333G@b~zGJ@NG@b~zGtqg(hU

RqrG@b\)\G@bzHG@as33333G@azHJG@azHtqs(hU

RqtG@bG@b\(\G@a

=pG@b\J<G@b\(\tqu(hU

RqvG@eQGzG@fp

=G@d\(\G@e\J2G@e\(\tqw(hU

RqxG@fG@hM\(\G@eG@gJ(\G@glty(hU

RqzG@gJG\G@hzGG@fG@fJaTG@ftq{(hU

Rq|G@f

=pG@g

=qG@f

=qG@g?

=pJG@g?

=ptq}(hU

Rq~G@gU\(\G@hLzGG@g33333G@h)JPG@h)ttq(hU

RqG@hzGG@hffffG@g33333G@gzGJBG@gzGttq(hURqG@h1G@hp

=G@g

=qG@h\)\JG@h)ttq(hURqG@h)\G@hG@h\*G{G@h[

=pJ!G@h[

=ptq(hURqG@h\(\G@i33333G@gG@gp

=JG@gp

=tq(hURqG@gzGG@gG@f33333G@gffffJG@gffffttq(hURqG@f\(\G@fG@eG@e+33333J.G@e+33333ttq(hURq

G@e)\(\G@ezGG@e,G@eJG@etq(hU RqG@e33333G@efffffG@d

=qG@efffffJG@effffttq(hU

RqG@eUp

=G@e

=qG@d\(\G@dQJ jG@dQtq(hURqG@e\$\(\G@fG@d=p

G@f

=qJG@f

=qtq(hURqG@g\(\G@gG@f,G@fJtG@ftq(hURqG@fffffG@g=p

G@fXG@g

=pJ<G@g

=ptq(hURqG@f0G@fo

=pG@eZ\(\G@eGzJ,?G@eGztq(hURqG@e

=qG@f0G@e G@eJG@etq(hURqG@eIGzG@ep

=G@d\(\G@dGzJ G@dGztq(hURqG@e#33333G@e?)(G@d

=qG@e,JG@e,tq(hURqG@d

=pG@e0G@d)RG@d33333JHG@d33333ttq(hURqG@d

=pG@eZ\(\G@dG@d

=qJtiG@d

=qtq(hURqG@e=p



G@f&QG@eQG@eQJh+G@eQtq(hURqG@eG@f)G@e=p  
G@flzGJbG@flzGtq(hURqG@fQG@fffffG@f0QG@fJhG@ftq(hURqG@fQG@fG@fG@f)(J  
~uG@f\tq(hURqG@fffffG@fG@fQJ\$wG@f~Qtq(hURqG@fG@fQG@fQG@fIJ\_G@fltq(hURqG@f~fff  
ffG@fRG@f333333G@fJYG@ftq(hURqG@fd(\G@fffffG@f  
=qG@f GzJm\_G@f  
Gztq(hURqG@fG@fffffG@eQG@em\JthG@em\tq(hURqG@eK333333G@e\(\G@e\(\G@e?\(J(sG@e?\(tq(hU  
RqG@eHG@eG@e  
=pG@e\JptG@e\(\tq(hU  
RqG@e\(\G@e\(\G@eiGzG@etJAG@ettq(hU  
RqG@ep  
=G@e\(\G@e.fffffG@eNfffffJIG@eNffffftq(hURqG@e`G@fZ=p  
G@e333333G@fVzGJ2G@fVzGtq(hURqG@f?zHG@fzGG@fQG@fx\JG@fx\)\tq(hURqG@fffffG@fzHG@efff  
ffG@f  
=pJG@f  
=ptq(hURqG@fQG@fG@fG@f\JXpG@f\(\tq(hURqG@fG@gQG@f  
=pG@g  
=qJG@g  
=qtq(hURqG@gIRG@g\(\G@fG@fJ,TG@ftq(hURqG@fG@g[333333G@fQG@gIJ;G@gItq(hURqG@gnfffffG@g  
333333G@g@G@gJ'7G@g\|tq(hURqG@gG@h)G@g333333G@gQJ\$G@gQtq(hURqG@hQG@h1G@gQG@hQJ  
B?G@hQtq(hURqG@g)G@h0  
=qG@g)G@hJT(G@htq(hURqG@h  
=pG@h\(\G@g333333G@h333333JZG@h333333tq(hURqG@h\(\G@h\(\G@hRG@hGzJuG@hGztq(hURqG@hG@itz  
GG@hnQG@iVQJhG@iVQtq(hURqG@i,G@ij\(\G@h\(\G@hPJG@hPtq(hURqG@h.fffffG@hG@h\(\G@h0QJ8}  
G@h0Qtq(hURqG@hb\(\G@h)G@gw  
=pG@gJ~G@gG@gtq(hURqG@gzGG@hHG@g)G@h;33333JqG@h;33333tq(hU  
RqG@hPG@h333333G@g\(\G@haRJsG@haRtq(hURqG@hs  
=pG@hQG@h%\(\G@h1GzJl.jG@h1Gztq(hURqG@hJ\(\G@h)\(\G@gG@hl\JG@hl\(\tq(hU  
RqG@hl\(\G@hzGG@hAG@hj\(\JxhG@hj\(\tq(hURqG@hG@iQG@hD\(\G@h  
=pJIG@h  
=ptq(hURqG@i  
=pG@i  
=qG@hQG@iJxG@i\|tq(hURqG@iG@iG@hQG@hJdG@htq(hURqG@hG@hG@hG@h=p  
=JZG@h=p  
=tq(hURqG@hQGzG@hkQG@g  
=pG@g)JEG@g)G@gtq(hURqG@gzGG@g\(\G@f=p  
G@f  
=pJ,G@f  
=ptq(hURqG@fzGG@fzHG@f GzG@f#  
=pJG@f#  
=ptq(hURqG@fh  
=qG@gQG@fdG@gzHJG@gzHtq(hURqG@gQG@gQG@g&fffffG@g\(\JH eG@g\(\tq(hURqG@g  
=qG@hVfffffG@gJG{G@gG{JHHG@gG{tq(hURqG@h6zGG@hQG@g  
=pG@hs  
=pJoG@hs  
=ptq(hURrG@hL\(\G@hQG@g\(\G@gJuG@gtr(hURrG@jG@kG@iuQG@iQJDzG@iQtr(hURrG@izHG@j  
=pG@iRG@jIQJ.G@jIQtr(hURrG@i  
=pG@iG@iS333333G@iQJG@iQtr(hURrG@iQG@iG@hpQG@h)JG@h)tr (hURr  
G@hQG@i

=qG@hP\)G@hzGJ+G@hzGtr(hU RrG@iQG@i333333G@gQG@g\(\J,G@g\(\tr  
(hU  
RrG@g  
=pG@hQG@g(G@g\(\J,!G@g\(\tr(hURrG@gUQG@h  
=p  
G@gB=p  
G@gJ"\"G@gltr(hURrG@f33333G@h\"(\G@fG@hzHJiLG@hzHtr(hURrG@h333333G@hG{G@h\"(\G@hg\(\JjG  
@hg\(\tr(hURrG@hVffffG@h\(\G@hIG@hQJLCG@hQtr(hURrG@h\(\G@hG@hRG@hJ@G@htr(hURrG@hQG  
@hG{G@hQG@hffffJ|G@hfffftr(hURrG@hG@hG@gzGG@g  
=pJG@g  
=ptr(hURrG@h)G@hO\(\G@gQG@h>ffffJG@h>fffftr(hURr G@f  
=pG@g33333G@f\(\G@gzGJG@gzGtr!(hURr"G@gG@gp  
=G@g0QG@g;  
=pJ.G@g;  
=ptr#(hURr\$G@g@G@g  
=pG@g;33333G@gzHJLwG@gzHtr%(hURr&G@gzG@gG@fG@gARJG@gARtr'(hURr(G@g>ffffG@gup  
=G@gQG@g%\(\J\*oG@g%\(\tr)(hURr\*G@gD\(\G@gxG@g RG@g`QJtG@g`Qtr+(hURr,G@gVffffG@ghG@g"=p  
G@g<JT]gG@g<tr-(hURr.G@gx\G@g33333G@g`)\G@gRJAG@gRtr/(hURr0G@g33333G@g33333G@g  
=pG@g&ffffJzG@g&fffftr1(hU Rr2G@gQG@gG@fQG@f33333JXG@f33333tr3(hU  
Rr4G@fQG@ffffG@f,G@f\(\Jt>G@f\(\tr5(hURr6G@fzGG@ffffG@f\$G@f9JzG@f9tr7(hURr8G@fJ\(\G@fLG  
@e=p  
G@ezHJhG@ezHtr9(hURr:G@eG@fG@eQG@fSQJTG@fSQtr;(hURr<G@ffffG@fSQG@eQG@e33333JnIG  
@e33333tr=(hURr>G@f\$\(\G@ftzGG@eG@fiGzJ~G@fiGztr?(hURr@G@fYRG@fG@fIRG@fGzJP/IG@fGztrA  
(hURrBG@fh  
=qG@fp  
=G@f(G@f\(\J41rG@f\(\trC(hURrDG@f\(\G@fzGG@f;33333G@fS33333JUG@fS33333trE(hURrFG@f?  
=pG@fzHG@f?  
=pG@f\_\(\JIG@f\_\(\trG(hURrHG@ffffG@fQG@ffffG@fhJp8G@fhtrI(hURrJG@f\(\G@gG@ffffG@fp  
=JTG@fp  
=trK(hURrLG@fG@f)G@fB=p  
G@fr=p  
J(bG@fr=p  
trM(hURrNG@fzGG@ffffG@fs33333G@fffffJ'\_G@ffffftrO(hURrPG@f>ffffG@fzGG@f4zGG@fQJGgG@f  
QtrQ(hURrRG@fQG@ffffG@fzHG@fGzJpT^G@fGztrS(hURrTG@f~ffffG@g\*=p  
G@fzG{G@g)GzJp<{G@g)GztrU(hURrVG@gw\(\G@gQG@gtr=p  
G@g=p  
JOG@g=p  
trW(hURrXG@gzHG@gG@gr\(\G@g  
=pJ%PG@g  
=ptrY(hURrZG@g\G@hS  
=pG@gzGG@h8QJ(G@h8Qtr[(hURr\G@h6zGG@hc33333G@ffffG@hJNG@htr](hURr^G@h"G{G@hYG@h  
=p  
G@h\(\JRG@h\(\tr\_(hURr`G@h G@hMp  
=G@gQG@h>QJ0oG@h>Qtra(hU  
RrbG@h/  
=pG@hJ=p  
G@g\(\G@h\(\JdG@h\(\trc(hURrdG@h(  
=qG@hKQG@g33333G@gfffffJ]G@gffffftr(hURrfG@g33333G@gG{G@gQG@g J8G@g

trg(hURrhG@g)(G@gl(G@fzHG@g\_  
=pJcG@g\_  
=ptri(hURrjG@g)(G@hG@g)G@gJG@gtrk(hURrlG@h)(G@iG@h}QG@h33333JIG@h33333trm(hURrnG@i  
p  
=G@iG@h=p  
G@i  
=pJ\G@i  
=ptro(hURRpG@kG@IG@jQG@jRJIG@jRtrq(hURrrG@k:=p  
G@lzHG@k0  
=qG@k)J.G@k)trs(hURrtG@k  
=pG@kG@kIGzG@kXJG@kXtru(hURrvG@k?zHG@k33333G@kzHG@kx)JG@kx)trw(hURrxG@kpG@k)(G  
@k6QG@knffffJ0}G@knfffftry(hURrzG@kQG@kG@k:=p  
G@kJG@ktr{(hURr|G@kG@kffffG@kQG@kGzJ G@kGztr}(hURr~G@k33333G@IG@k=p  
G@lFzGJMG@lFzGtr(hURrG@lg)(G@l(G@l'G@lJ,aG@ltr(hURrG@l  
=pG@l  
=pG@l<(G@l\_(J`rG@l\_(tr(hURrG@IG@IG@l0  
=pG@l  
=qJ|5gG@l  
=qtr(hU RrG@IG@IG@l-(G@l@  
=qJ |TG@l@  
=qtr(hU  
RrG@l/  
=pG@lyG@l  
=pG@lyJH`G@lytr(hURrG@l  
=pG@l(G@l)\(G@lGzJ'G@lGztr(hURrG@lRG@m)(G@lffffG@l  
=pJG@l  
=ptr(hU  
RrG@l(G@lG{G@lj=p  
G@lzHJ&qG@lzHtr(hURrG@l(G@l  
=pG@l=p  
G@lJVG@ltr(hURrG@lRG@m.ffffG@lffffG@m\$(J'wG@m\$(\tr(hURrG@m3QG@m  
=pG@m0  
=qG@mQJG@mQtr(hURrG@n  
G{G@n%p  
=G@m  
=qG@m(JCG@m)(tr(hURrG@n&QG@n5p  
=G@mG@n3QJG@n3Qtr(hURrG@neQG@p!G@nVQG@offfffJ\FG@offfftr(hURrG@p)(G@p  
=pG@oG@pJ)G@ptr(hURrG@o(G@pOzHG@oT(G@pL)JG@pL)tr(hURrG@pO)(G@p)(G@p\$G@p33333J  
hG@p333333tr(hURrG@pG)(G@pG@p4G@pJ\$G@ptr(hURrG@pG{G@qffffffG@pRG@qTQJNSG@qTQtr(hU  
RrG@q33333G@rN=p  
G@qQG@rJG@rtr(hURrG@rzHG@rzGG@qG@qffffffJTCG@qfffffftr(hURrG@q  
=qG@rG@qV(G@q(J\G@q(\tr(hURrG@q=p  
G@r\G@qGzG@r/  
=pJWG@r/  
=ptr(hURrG@rG@rp  
=G@r\$G@rQRJ#sG@rQRtr(hURrG@rMG@rS  
=pG@q`G@qx)J\$\*G@qx)tr(hU RrG@qQG@rG@q)G@q)JG@q)tr(hU  
RrG@q

=pG@qzGG@qQG@qJG@qtr(hU  
RrG@q}QG@q  
=pG@qHQG@qJ\G@qtr(hURrG@qip  
=G@q  
=pG@q\G@qeJ\G@qetr(hURrG@q0G@qTG@pG{G@q,J>G@q,tr(hURrG@q\$(\G@qdG@qQG@qW  
=pJ@)G@qW  
=ptr(hURrG@qpG@qG@q>ffffG@qJ`7G@qtr(hURrG@qAp  
=G@qQG@pzHG@q33333J@G@q33333tr(hURrG@rQG@r\$G@qQG@qp  
=JG@qp  
=tr(hURrG@rQG@rEQG@r  
QG@rJG@rtr(hURrG@rG@r\)\G@qG@r\{J{G@r\tr(hURrG@r.ffffG@rG@rGzG@rJ\*G@rtr(hURrG@rffffG@  
sQG@r\)\G@sJG@str(hURrG@s\$zGG@sTG@rG@rJTy"G@rtr(hURrG@rG@szGG@rBffffG@rKQJL7G@rK  
Qtr(hURrG@rep  
=G@rG{G@r0  
=qG@rbffffJRG@rbfffftr(hURrG@rp  
=qG@r  
=pG@rQG@r4JPG@r4tr(hURrG@rAG@rzHG@r#zHG@r{\(JpYrG@r\tr(hURrG@rG@rG@r6zGG@r8QJ,zG  
@r8Qtr(hURrG@r=p  
G@r\G@r(\G@rx  
=qJG@rx  
=qtr(hURrG@rG@rG@r`G@rzHJ@qG@rzHtr(hURrG@rffffG@rG@r0QG@rUJG@rUtr(hURrG@rV=p  
G@rffffG@r.G{G@r<zGJ}YG@r<zGtr(hU  
RrG@rH(\G@r  
=pG@rAG@r\JLG@r\tr(hURrG@sp  
=G@s,G@rQG@r=p  
JG@r=p  
tr(hURrG@r  
=pG@rffffG@rzGG@r  
=pJG@r  
=ptr(hURrG@rG@rffffG@rG@r  
=qJ8^G@r  
=qtr(hURrG@rG@rseG@rG@s^ffffJXG@s^fffftr(hURrG@sQG@s\(\G@rG@sJ\G@str(hURrG@sG@sG@ss\(\G  
@s  
=pJX-G@s  
=ptr(hURrG@s%RG@sTG@rGzG@rffffJdG@rfffftr(hURrG@r=p  
G@r  
=qG@ro\(\G@r}JaG@r}tr(hURrG@rp\(\G@rG@rAp  
=G@rp  
=JDG@rp  
=tr(hURrG@r  
=pG@rzHG@rFffffG@rG{J"nG@rG{tr(hURrG@r\(\G@r\(\G@rTzGG@rXJjZG@rXtr(hURrG@rB=p  
G@rMp  
=G@q  
=pG@q\J\$G@q\tr(hURrG@rRG@rHG@rG@r9\JfVG@r9\tr(hURrG@r9G@rQG@r1RG@r  
=pJX=oG@r  
=ptr(hURrG@rG@rQG@ryG@rJh~ZG@rtr(hURrG@rxG@rG@rtG@rzHJOG@rzHtr(hURrG@rG@r(\G@r4)G  
@rEJZG@rEtr(hURrG@rYG@rzffffG@r'  
=pG@r4JcDG@r4tr(hU RrG@r?)(G@rJG{G@r(\G@r9QJd/XG@r9Qtr(hU

RrG@r4G@rEGzG@qzGG@qG{JhG@qG{tr(hURr  
G@q=p  
G@qzG@qRG@qJrG@qtr(hURrG@q\G@r#33333G@q=p  
G@rQJ,~dG@rQtr  
(hURrG@rG@rLQG@qQG@qJl|G@qtr(hURrG@qzGG@q  
=qG@qp  
=G@qffffJPzlG@qfffftr(hURrG@q\G@qQG@qG@qJ\$A;G@qtr(hURrG@q>\G@qG@q0G@q  
=pJ \*G@q  
=ptr(hURrG@q  
=pG@q33333G@qyRG@qJTG@qtr(hURrG@q  
=pG@qQG@qG@q (\JHgG@q (\tr(hURrG@qB\G@q{  
=pG@q!RG@qyGzJXG@qyGztr(hURrG@qYQG@qG@qG33333G@qQJG@qQtr(hURrG@qG@qG@qQG@qp  
=JBG@qp  
=tr(hURr G@qzHG@qQG@q\G@qGzJ\$M9G@qGztr!(hURr"G@q  
=pG@rRG@q  
=pG@r33333JZG@r33333tr#(hURr\$G@q=p  
G@r\G@qzGG@qQJIG@qQtr%(hURr&G@rzHG@rG@q\G@qJLG@qtr'(hU  
Rr(G@q\G@qG@qG@qJT)G@qtr)(hU Rr\*G@q\G@r  
=pG@q  
=pG@r33333Jh4G@r33333tr+(hU Rr,G@rG@r=p  
G@qG@q\JLF@G@q\tr-(hU Rr.G@q=p  
G@rxG@qzGG@rmRjrG@rmRtr/(hU Rr0G@rmGzG@rzGG@rU\G@rv=p  
J4dG@rv=p  
tr1(hU Rr2G@rzGG@rG@r)G@rp  
=JDBG@rp  
=tr3(hU Rr4G@rG@svQG@rG@s[  
=pJD|G@s[  
=ptr5(hU  
Rr6G@sPG@szzGG@s"QG@szG{J)G@szG{tr(hU Rr8G@sKzHG@szGG@rG@rJG@rtr9(hU  
Rr:G@rQG@s,G@r\G@rRjG@rRtr;(hU Rr<G@sQG@sG@rRG@r33333JsG@r33333tr=(hU Rr>G@rG@s  
G@r\G@r  
=qJIWG@r  
=qtr?(hU Rr@G@s"ffffG@stG@szHG@s>\(JXG@s>\(trA(hU  
RrBG@sF\G@s\G@s\G@s~ffffJjG@s~fffftrC(hU RrDG@sxG@sQG@sbQG@suRJ@vG@suRtrE(hU  
RrFG@sG@s\G@sp  
=G@s\JsG@s\trG(hU RrHG@sG@t33333G@s)G@szGJG@szGtrI(hU RrJG@s33333G@s\G@szGG@s  
=pJhG@s  
=ptrK(hU RrLG@sQG@sG@sG@s JzG@s trM(hU RrNG@s\*G{G@skQG@s!GzG@sYRJUG@sYRtrO(hU  
RrPG@sQG@sG@s  
=qG@s\JDG@s\trQ(hU  
RrRG@szGG@t\G@s  
=qG@sG{JIG@sG{trS(hU  
RrTG@s33333G@tzGG@sk  
=pG@spJG@sptrU(hU  
RrVG@s  
=pG@sffffG@s@G@sk\JG@sk\trW(hU  
RrXG@s=p  
G@szHG@sap

=G@sJyG@strY(hU  
RrZG@s  
=qG@sQG@sh  
=qG@s  
=pJ|NgG@s  
=ptr[(hU  
  
Rr\G@s)\G@sQG@sRffffG@sjffffJhUG@sjfffftr](hU  
Rr^G@si|(G@sffffG@s  
\(G@s!JYG@s!tr\_(hU  
Rr`G@s33333G@s3  
=pG@rG@rQJXG@rQtra(hU  
  
RrbG@rG@rG@r\*G{G@r  
=pJ@G@r  
=ptrc(hU  
RrdG@rffffG@rzHG@rH  
=qG@r=p  
JG@r=p  
tre(hU  
RrfG@rG@s33333G@rh)\G@sJlusG@strg(hU  
RrhG@s|(G@s?)|(G@r  
=pG@rzGJkG@rzGtri(hU  
RrjG@sG@s]RG@r|(G@sK33333JjG@sK33333trk(hU  
RrlG@s\_  
=pG@srzGG@r|(G@r33333JFG@r33333trm(hU  
RrnG@uG@uG{G@tG@u>ffffJpO)G@u>fffftro(hU  
RrpG@uuRG@uG@uc  
=pG@ufffffJG@uffffftrq(hU  
RrrG@uzGG@ufffffG@um|(G@u|(J|hG@u|(trs(hU  
RrtG@uzGG@v@G@u  
=pG@v7  
=pJG@v7  
=ptru(hU  
RrvG@vIG@vQp  
=G@uG{G@v\}J@XNG@v\}trw(hU  
RrxG@v4QG@vo33333G@v0QG@vbQJZG@vbQtry(hU  
RrzG@v  
=pG@wlG@vx|(G@wB=p  
JG@wB=p  
tr{(hURr|G@w=(G@wffffG@w|(G@wzGJG@wzGtr}(hURr~G@w33333G@xG@wQG@wG{J7G@wG{tr(hU  
RrG@w|(G@x)GzG@wzGG@x33333JPqG@x33333tr(hURrG@x\_zHG@x|  
=qG@x33333G@xfG{JDG@xfG{tr(hURrG@xG@xQG@xffffG@xzGJZG@xzGtr(hURrG@xG@xp  
=G@xIGzG@x^ffffJxG@x^fffftr(hU RrG@x\*QG@xD  
=qG@wzGG@wffffJTG@wfffftr(hU  
RrG@w|(G@xuG@wG{G@xqJJG@xqtr(hURrG@xRG@xffffG@xMG@xffffJkG@xfffftr(hURrG@xRG@x  
QG@xxzGG@xQJ#wG@xQtr(hURrG@xzGG@xG@xo33333G@xJG@xtr(hURrG@x33333G@xG@x|(G@xffff  
fJG@xfffftr(hURrG@yG@y<)\G@xzGG@y733333J(G@y733333tr(hURrG@y7

=pG@yHG@xG@y(J\$4kG@y)(tr(hURrG@xQG@yzHG@x  
=pG@y(J|G@y)(tr(hURrG@yffffG@z)G@yczHG@zQJ'IG@zQtr(hURrG@z  
=qG@zQG@yzGG@zm(JG@zm)(tr(hURrG@zzGG@zG@zG@zRJIG@zRtr(hURrG@zQG@z  
=pG@zg  
=pG@zwwHJG@zwwHtr(hURrG@z(G@zffffG@y"=p  
G@y8  
=qJGG@y8  
=qtr(hURrG@yD(G@y33333G@x)G@yN(J8G@yN)(tr(hURrG@y33333G@y  
=pG@y  
=qG@yp  
=JG@yp  
=tr(hURrG@z  
=pG@z8zGG@y(G@z33333JsG@z33333tr(hURrG@zG@zG@yDzGG@y)JG@y]tr(hURrG@y33333G@z(G@  
y33333G@yH  
=qJG@yH  
=qtr(hURrG@yb(G@yk33333G@x(G@yCQJG@yCQtr(hURrG@yTG@yffffG@y\*=p  
G@yffffJG@yfffftr(hU  
RrG@yG@yzGG@y)G@y33333JtG@y33333tr(hURrG@yzGG@y(G@y33333G@y(JjG@y)(tr(hU  
RrG@yG@z G@y=p  
G@z  
=pJHw|G@z  
=ptr(hURrG@z  
=qG@z;zHG@y  
=pG@z(J,eG@z(tr(hURrG@z1(G@zr=p  
G@zG@zhJh@G@zhtr(hURrG@zp  
=G@{G@zIG@zffffJ/G@zfffftr(hURrG@{33333G@{(G@zA(G@zJNG@ztr(hURrG@z(G@{33333G@zQG  
@z  
=pJ|G@z  
=ptr(hURrG@{G@{M(G@zK(G@zGzJ;G@zGztr(hURrG@zQG@{  
{G@zG{G@{  
=qJ&sG@{  
=qtr(hURrG@{ffffG@{G@zzGG@zG{JFG@zG{tr(hURrG@z(G@z(G@z(G@z(G@z=p  
JFfG@z=p  
tr(hURrG@zp  
=G@zzGG@zT(G@z  
=pJLIG@z  
=ptr(hURrG@zzHG@zzHG@z2QG@zBffffJiG@zBfffftr(hURrG@zQG@z#(G@y  
=pG@y(JsG@y)(tr(hURrG@zhQG@{:QG@z#QG@{3zHJ6G@{3zHtr(hURrG@{ffffG@|(G@{|G@{  
=pJ@G@{  
=ptr(hURrG@{G@|8G@{G@|3  
=pJG@|3  
=ptr(hURrG@|RG@}hG@|S  
=pG@}{JG@}{tr(hU RrG@}&(G@}ffffG@|  
=pG@}.ffffJ0G@}.fffftr(hU  
RrG@}QG@}dG@|  
=qG@}{JG@}{tr(hURrG@}tQG@}{G@}RG{G@}zzGJ(qG@}zzGtr(hURrG@}QG@}  
=pG@|G@|zGJG@|zGtr(hU  
RrG@})G@}.=p

G@\\(G@}\$JtG@}\$tr(hURrG@\\)G@}^ffffG@|zGG@}1\\(J1~G@}1\\(tr(hURrG@{G@\\(G@{G@{\\(JD8G@{\\(tr  
(hURrG@|2QG@|W  
=pG@{G@{G33333JTG@{G33333tr(hURrG@{k33333G@{zGG@x  
=pG@x\\(JdsG@x\\(tr(hURrG@yvzGG@z=p  
G@y[zHG@zJ[G@ztr(hURrG@{@zGG@{33333G@{'zHG@{zGJG@{zGtr(hURrG@|4\\G@|czHG@zQG@{JX  
G@{tr(hURrG@{x  
=qG@{  
=pG@zx)G@{\$QJ<G@{\$Qtr(hURrG@{0G@{cQG@zzHG@{  
=pJhG@{  
=ptr(hURrG@zzHG@{zGG@zG@zQJdG@zQtr(hURrG@zQG@{yG@zQG@{  
\\(JPPG@{  
\\(tr(hURrG@xPzGG@yG@x8QG@yzGJDG@yzGtr(hURrG@y=QG@yhG@xzHG@x  
=qJ+G@x  
=qtr(hURrG@xRG@xffffG@wIQG@wJHG@wtr(hURrG@x)G@x^ffffG@w)G@xJpkG@xtr(hURrG@w  
=pG@w33333G@vG@vQJG@vQtr(hURrG@wzHG@w+  
=pG@v\*QG@wGzJr=G@wGztr(hURrG@w33333G@wffffG@vA\\(G@vIQJG@vIQtr(hU  
RrG@v33333G@vG@v=p  
G@v\\(JJG@v\\(tr(hU  
RrG@u=p  
G@uG@u^=p  
G@u33333J,G@u33333tr(hURr  
G@uGzG@u  
=pG@ufffffG@uuQJ0G@uuQtr(hURrG@uTQG@uG@uGzG@ufzGJ8G@ufzGtr  
(hURrG@uQG@vG@u  
=pG@v\\(J?EG@v\\(tr(hURrG@w\\(G@wB=p  
G@vRG@wJHG@wtr(hURrG@v  
=pG@wX  
=qG@v\\(G@vp  
=JG@vp  
=tr(hURrG@vffffG@w33333G@v\\(G@v  
=pJbG@v  
=ptr(hURrG@v\\(G@w  
=pG@v=p  
G@wQJG@wQtr(hURrG@wG@wQG@wW  
=pG@wffffJLbG@wfffftr(hURrG@wQG@x{33333G@wzGG@xfzGJhG@xfzGtr(hURrG@x33333G@x  
=qG@u\\(G@vRJYG@vRtr(hURrG@w)G@w33333G@vG@vJ  
G@vtr(hURrG@vzGG@wG@v33333G@w33333JG@w33333tr!(hURr"G@xG@x3  
=pG@w\\(G@wG{JG@wG{tr#(hURr\$G@w\\(G@wffffG@v=p  
G@wJhG@wtr%(hURr&G@vQG@w33333G@vbfiffG@v33333J0^G@v33333tr'(hURr(G@vG{G@vzGG@u  
=qG@vzGJ@9G@vzGtr)(hURr\*G@v6=p  
G@vhzGG@uXG@upJAG@uptr+(hU  
Rr,G@uxG@uG@tG@uJ&G@utr-(hU  
Rr.G@uNG{G@uG@t33333G@u)J\*G@u)tr/(hURr0G@u=p  
G@vRG@tRG@u\\(JG@u\\(tr1(hURr2G@uQG@vG@uHzGG@uJ  
G@utr3(hURr4G@u\\(G@uG@ufffffG@u,QJG@u,Qtr5(hURr6G@u,G@u\\zGG@tG{G@u<  
=qJ}G@u<  
=qtr7(hURr8G@uep  
=G@up



=G@uX  
=qG@u  
=pJG@u  
=ptr9(hURr:G@u(\G@u(\G@u1GzG@u>QJG@u>Qtr;(hURr<G@u<G@uG@uG@uCQJsG@uCQtr=(hURr>G@ueG@uG@uC33333G@u^=p  
JqqG@u^=p  
tr?(hURr@G@w RG@w!p  
=G@v(\G@vJ8G@vtrA(hURrBG@vp  
=G@w;(\G@vG@w  
=pJT,kG@w  
=ptrC(hURrDG@w;(\G@w(\G@w2QG@w33333JG@w33333trE(hURrFG@w  
=pG@xG@w(\G@xzHJ,V"G@xzHtrG(hURrHG@xS  
=pG@xG@w(\G@xG  
=pJ{G@xG  
=ptrI(hURrJG@xK  
=pG@x}RG@xzGG@x`JE-  
G@x`trK(hURrLG@xXzGG@xQG@x>G{G@x[33333JL{G@x[33333trM(hURrNG@x^ffffG@yNffffG@xB=p  
G@yEp  
=JtG@yEp  
=trO(hURrPG@y33333G@yQG@y-QG@y  
=pJG@y  
=ptrQ(hURrRG@yg  
=pG@y=p  
G@yVG{G@yG{J3G@yG{trS(hURrTG@y)(G@yG@y@QG@yb(J4kG@yb(trU(hU  
RrVG@yqGzG@zQG@yTG@zzGJ6G@zzGtrW(hURrXG@zQG@z1G@ycQG@y)(J{G@y)(trY(hURrZG@yG@yGzG@yS  
=pG@y33333J[G@y33333tr[(hU  
Rr\G@yzGG@y(\G@yG@y"(JDcG@y"(tr](hURr^G@y733333G@yG@y  
p  
=G@ymQJ~G@ymQtr\_(hURr`G@y~G{G@yGzG@yG@yC  
=pJ+|G@yC  
=ptrA(hURrbG@yQG@y=p  
G@yKzHG@yJ{gG@ytrc(hURrdG@y(\G@zG@y33333G@yJ?G@ytre(hURrfG@|ffffG@|+QG@{BQG@{QJX  
G@{Qtrg(hURrhG@{vffffG@{33333G@{HQG@{J0G@{tri(hURrjG@{zzGG@{  
=qG@zG@z(JG@z)(trk(hURrlG@z  
=pG@z  
=qG@zXzGG@zQJoG@zQtrm(hURrmG@zn(\G@z(\G@z6=p  
G@z@zGJ9G@z@zGtro(hURrpG@z\*zGG@zzHG@zG@z  
=pJt=qG@z  
=ptrq(hURrrG@z'QG@z7  
=pG@xG@xffffJpG@xffffftrs(hURrtG@yGzG@y'  
=pG@xPffffG@xJG@xtru(hURrvG@xG@yG@xnzGG@xQJ,{G@xQtrw(hURrxG@xzGG@xRG@x)(G@xJFG  
@xtry(hURrzG@xG@y  
G{G@x|zGG@xJh\G@xtr{(hURr|G@x(\G@xRG@x`G@xzGJNG@xzGtr}(hU  
Rr~G@x33333G@yG@xG@yJxyG@ytr(hU  
RrG@y)G@y(\G@y(\G@y/zHJh^G@y/zHtr(hURrG@y6QG@yK(\G@xzHG@x0JG@x0tr(hURrG@w  
=qG@x  
RG@wXG@wbzGJG@wbzGtr(hURrG@w~G{G@wffffG@wG@w33333JG@w33333tr(hURrG@w

=pG@w\G@w=p  
G@w4JcG@w4tr(hURrG@w)\G@wp  
=G@w#QG@whJXiG@whtr(hURrG@wzGG@w\G@w+\G@w/  
=pJYG@w/  
=ptr(hURrG@wTzGG@whG@vQG@w QJ8G@w  
Qtr(hURrG@vG@wPzGG@vG@w/33333JJG@w/33333tr(hURrG@wc\G@wzGG@wX\G@wyGzJG@wyGztr(  
hURrG@wG@w  
=pG@w9\G@wJG@wtr(hURrG@wGzG@wG@wD\G@w  
=pJ(  
}G@w  
=ptr(hURrG@xG@xzGG@wzGG@wJ87G@wtr(hURrG@wzGG@wG@w733333G@w?  
=pJ`AG@w?  
=ptr(hURrG@w\G@wG@vzGG@w=QJyG@w=Qtr(hURrG@wX  
=qG@w  
=pG@w9G@wRJP\_G@wRtr(hURrG@x-p  
=G@x1GzG@w33333G@w  
=pJraG@w  
=ptr(hURrG@wG{G@w33333G@wbffffG@wg  
=pJTG@wg  
=ptr(hURrG@wGzG@x`G@wG@x\_  
=pJXG@x\_  
=ptr(hURrG@x  
=pG@x\G@x(G@x(\JG@x(\tr(hURrG@x<G@xQG@wp  
=G@xJG@xtr(hU RrG@x  
=pG@xG{G@xG@x)QJ]G@x)Qtr(hURrG@xEp  
=G@xg  
=pG@wG@w  
=qJLG@w  
=qtr(hU  
RrG@wffffG@x0G@wRG@x(QJ\G@x(Qtr(hURrG@x]GzG@xqG@wQG@x=p  
J vG@x=p  
tr(hURrG@x)RG@xG@wG@xpJgG@xptr(hURrG@xQG@xnG{G@x@G@xk33333JPG@xk33333tr(hURrG@x  
mG@xG@x/zHG@xB=p  
JxtG@xB=p  
tr(hURrG@x@zGG@x}RG@x(\G@x2QJ=G@x2Qtr(hURrG@xp\G@y@G@x\G@y"zJmG@y"zGtr(hURrG@  
yGzG@y`G@x@G@x33333J\5ZG@x33333tr(hURrG@y,\G@yG@y  
=pG@yM\JQG@yM\tr(hURrG@yIG@yG@y4G@yCQJ/6G@yCQtr(hURrG@y[\G@yG@y(\G@y%QJ]>G@y  
%Qtr(hURrG@y@(\G@ygzHG@yzGG@ya\J\$8G@ya\tr(hURrG@y  
=pG@z#33333G@y]QG@z\JeG@z\tr(hURrG@yG@z5GzG@yGzG@z5GzJP}\_G@z5Gztr(hURrG@z@  
=qG@z]QG@z733333G@zs33333J G@zs33333tr(hURrG@zXQG@zIG@y=p  
G@zW\JLG@zW\tr(hURrG@zvzGG@zzGG@z\_zHG@zs  
=pJB8G@zs  
=ptr(hURrG@zG@z=p  
G@yzGG@zG33333J,1\G@zG33333tr(hU  
RrG@zw  
=pG@zzHG@zzGG@z#33333JCG@z#33333tr(hURrG@z(\G@zG@yzGG@z)Jd[G@z)tr(hURrG@zap  
=G@zk  
=pG@zzHG@zJJG@ztr(hU

RrG@yG@z%p  
=G@ymGzG@yGzJiG@yGztr(hURrG@yGzG@y  
=pG@x\(\G@y8Jd<sG@y8tr(hURrG@yJzGG@yG@y;QG@y~=p  
JXG@y~=p  
tr(hURrG@yG@yQG@x  
=pG@y0JBG@y0tr(hURrG@x\(\G@y=p  
G@x\(\G@xJdG@xtr(hURrG@yDzGG@yG  
=pG@x\(\G@x1RJLSG@x1Rtr(hURrG@x"=p  
G@x|G@w  
=pG@xa\(\Jh\G@xa\(\tr(hURrG@xQG@x=p  
G@w\(\G@xnffffJTb{G@xnfffftr(hURrG@xQG@xt)\G@wG@xU\(\JLWG@xU\(\tr(hURrG@xC33333G@x~\(\G  
@wG@xJhTG@xtr(hURrG@x5RG@x7  
=pG@w33333G@wffffJVG@wfffftr(hURrG@wG@xX)\G@wzHG@xARJO>G@xARtr(hURrG@x@G@xRQ  
G@w\)\G@x)JdFG@x)tr(hURrG@x\(\G@xQG@wx\(\G@wx\(\J\SG@wx\(\tr(hURrG@wyG@wQG@v33333G@vz  
HJMIG@vzHtr(hURrG@vzHG@w\(\G@v\(\G@wv=p  
J`G@wv=p  
tr(hURrG@w\)\G@wG{G@w<G@w}J  
MG@w}tr(hURrG@w8G@wzHG@w2ffffG@w33333J9<G@w33333tr(hURrG@wQG@xG@wp  
=G@wJ`WG@wtr(hU RrG@wG@x  
G{G@w\(\G@w  
=pJAG@w  
=ptr(hU  
RrG@w^zGG@wQG@wG\(\G@wc33333JAG@wc33333tr(hURrG@wffffG@wtzGG@wG@wJx9G@wtr(hURr  
G@w8G@wrzGG@w  
QG@wG{JIKG@wG{tr(hURrG@wa\(\G@wQG@wIG@wQJ4fG@wQtr(hURrG@wzHG@xG33333G@wRG@x;  
QJPYG@x;Qtr(hURr  
G@x&=p  
G@x`G@wQG@xJMG@xtr(hURrG@x\$)\G@x1p  
=G@wG@w\(\JKG@w\(\tr  
(hURrG@wG@wG@wsQG@wJd=G@wtr(hURrG@wzHG@w\(\G@wmp  
=G@w  
=qJ?G@w  
=qtr(hURrG@w=p  
G@wQG@wJ\(\G@wVG{J7G@wVG{tr(hURrG@wg  
=pG@wffffG@wD\(\G@w[zHJ#5G@w[zHtr(hURrG@wQGzG@wuQG@wHG@wT\(\J%G@wT\(\tr(hURrG@wy\  
(G@w33333G@wpG@w33333J?G@w33333tr(hURrG@wzGG@wQG@w33333G@w33333J  
DG@w33333tr(hURrG@w\(\G@x  
ffffG@w\(\G@wJp=G@wtr(hURrG@w  
=pG@wffffG@w33333G@wzGJ\*-G@wzGtr(hU Rr G@w  
=pG@wzGG@w  
=pG@wJ(G@wtr!(hU Rr"G@wRG@xffffG@w  
=pG@x\(\J<+>G@x\(\tr#(hU Rr\$G@wG@w  
=pG@w\(\G@w=p  
JD8G@w=p  
tr%(hU Rr&G@w=p  
G@wG@wffffG@w  
=pJ:G@w  
=ptr'(hU Rr(G@wQG@w

=qG@wQG@wJ/G@wtr)(hU Rr\*G@w(\G@x  
=pG@wQG@xp  
=J0EG@xp  
=tr+(hU Rr,G@xG@xzHG@xzGG@x~fffffJ  
SG@x~ffffftr-(hU  
Rr.G@xfffffG@yl(\G@xG@yiQJ  
G@yiQtr/(hU Rr0G@yDG@ydzGG@yG{G@y?zHJTQG@y?zHtr1(hU Rr2G@ywzHG@yG@yk  
=pG@yzGJwG@yzGtr3(hU Rr4G@yG@z+  
=pG@yQG@y  
=pJplG@y  
=ptr5(hU Rr6G@y(\G@y  
=pG@x  
=pG@y<)JG@y<)tr7(hU Rr8G@yqG@yv=p  
G@xRG@xJG@xtr9(hU Rr:G@yG@y33333G@x(\G@ymJ&G@ymtr;(hU  
Rr<G@yOzHG@yw33333G@y(\G@y<zGJFG@y<zGtr=(hU  
Rr>G@yYGzG@y33333G@y(G@y?zHJTWG@y?zHtr?(hU  
Rr@G@yXG@yzG{G@yQG@ymRJPG@ymRtrA(hU RrBG@ydG@yQG@y%RG@y.QJYG@y.QtrC(hU  
RrDG@yAGzG@yozHG@y  
=qG@y9GzJMG@y9GztrE(hU RrFG@yRzGG@yYRG@y(\G@yfffffJ42G@yffffftrG(hU  
RrHG@yfffffG@y`G@yG@y  
=pJ<7G@y  
=ptrI(hU  
RrJG@y  
=qG@yg(\G@x  
=pG@y@  
=qJ|bSG@y@  
=qtrK(hU  
RrLG@yOQG@yQG@y0G@y33333JeG@y33333trM(hU  
RrNG@y33333G@z#  
=pG@y(\G@y)JhXXG@y)trO(hU  
RrPG@yQG@z^(\G@yG@zHJ4oG@zHtrQ(hU  
RrRG@zG@z33333G@zvQG@zJDsG@ztrS(hU  
  
RrTG@z)G@{]G@zf=p  
G@zfffffJ\G@zffffftrU(hU  
RrVG@zQG@z(\G@z(\G@zJHUG@ztrW(hU  
RrXG@z)G@zG{G@zG@z  
=pJIG@z  
=ptrY(hU  
  
RrZG@z(\G@zG@z)G@zJdF7G@ztr[(hU  
Rr\G@z33333G@z33333G@zUp  
=G@z\JAG@z[tr](hU  
Rr^G@zDG@z|G@z33333G@zJ=p  
JxOG@zJ=p  
tr\_(hU  
Rr`G@zo  
=pG@zG@zG@z4)J[G@z4)tra(hU

RrbG@zCzHG@zG@z9QG@z)JG@z)trc(hU  
RrdG@|  
=pG@|G@|Yp  
=G@|QJG@|Qtre(hU  
RrfG@|zGG@~J=p  
G@|RG@~zGJyG@~zGtrg(hU  
RrhG@}zGG@}\(G@}v(G@})J\$G@})tri(hU  
RrjG@}  
=pG@~G@}\(G@~iJ0G@~itrk(hU  
RrlG@~zG{G@~\((G@~C33333G@~QJKkG@~Qtrm(hU  
RrnG@~>ffffG@~S  
=pG@}  
=pG@}33333JdG@}33333tro(hU  
RrpG@}QG@~\((G@}\(G@}QJ%dG@}Qtrq(hU  
RrrG@})G@~"(G@}p  
=G@}=p  
JX\_G@}=p  
trs(hURrtG@}\(G@}zGG@}\(G@}8J|RG@}8tru(hURrvG@}8G@}zHG@}&zGG@}^(JOG@}^(trw(hURrxG@  
}zHG@}G@})G@}|JJG@}|try(hURrzG@}QG@}\(G@}GzG@}33333J\*LG@}33333tr{(hURr|G@}33333G@}  
QG@}|QG@}QJLJG@}Qtr}(hURr~G@}eG@~  
=pG@}IG@}JHyG@}tr(hU RrG@}G@}  
=pG@})\((G@}zGJ`sJG@}zGtr(hU  
RrG@}zGG@}QG@}d  
=qG@}J\*G@}tr(hU  
RrG@}ffffG@~QG@}=p  
G@~zGJ@BG@~zGtr(hURrG@~33333G@~33333G@~G@~Jh8nG@~tr(hURrG@~G{G@=G@~G{G@~G{JG  
@~G{tr(hURrG@~G@G{G@~)G@~ffffJMG@~fffftr(hURrG@~G@:(G@~G@,  
=qJXTG@,  
=qtr(hURrG@&ffffG@&ffffG@~ffffG@~J1NG@~tr(hURrG@  
=qG@G@~GzG@ffffJG@fffftr(hURrG@QG@G@zGG@(\JDG@(\tr(hURrG@G@G@G@JpG@tr(hURrG@U  
RG@}zGG@~LG@~LJoG@~Ltr(hURrG@~zGG@~\((G@}zGG@~J`vG@~tr(hURrG@~  
=pG@~  
=pG@~\$G@~JffffJ\$}`G@~Jfffftr(hURrG@~C  
=pG@~ffffG@~G@~L)JUG@~L)tr(hURrG@~\_zHG@~=p  
G@}G@~JUG@~tr(hURrG@~0G@~vG{G@}G@~MJ<JG@~Mtr(hURrG@~vffffG@~  
=pG@~N=p  
G@~pJX>G@~ptr(hURrG@~o(G@~ffffG@~HQG@~\((JCG@~\((tr(hURrG@~zHG@~G@~&QG@~\*=p  
J+GG@~\*=p  
tr(hURrG@~  
=pG@~G@~G@~A(J<G@~A)(tr(hURrG@~NQG@~ffffG@~<G@~>G{J1G@~>G{tr(hURrG@~=G@~e(G@  
~zGG@~zGJ?G@~zGtr(hU  
RrG@~K  
=pG@~XG@}QG@}  
=pJT#GG@}  
=ptr(hURrG@~G@~<G@}\(G@~!RJdvHG@~!Rtr(hURrG@~\*=p  
G@~A(G@}p  
=G@~J4OG@~tr(hURrG@~((G@~+  
=pG@|QG@|JRzG@|tr(hURrG@|QG@}T)G@|G@}JzGJxdG@}JzGtr(hURrG@}`G@}xG@|GzG@|ffffJBG@|f

fffftr(hURrG@ }G{G@ }G@|Ep  
=G@|33333JTjG@|33333tr(hURrG@|G@|=p  
G@|KzHG@|yGzJL<G@|yGztr(hURrG@|QG@|QG@|ip  
=G@|zGJG@|zGtr(hURrG@|G@ }AGzG@|G@ }@zGJL@G@ }@zGtr(hURrG@ }IRG@ }IGzG@|G@|)J/G@|)tr(  
hURrG@|G@ }QG@|(G@|zHJ'G@|zHtr(hURrG@ } G@ }|(G@|(G@ }9p  
=JuG@ }9p  
=tr(hURrG@ }PG@~?33333G@ }EG@~4(\JZxG@~4(\tr(hURrG@~(G@~xG@ }|(G@~s  
=pJ\$hg@~s  
=ptr(hURrG@~{  
=pG@~RG@~#33333G@~9GzJHG@~9Gztr(hU RrG@~W33333G@~G@~33333G@~XJRG@~Xtr(hU  
RrG@~FG{G@~G@~  
=qG@~(\Jt[G@~(\tr(hURrG@33333G@G@G{G@;QJmG@;Qtr(hURrG@\_  
=pG@G@ }G@JdCDG@tr(hURrG@G@G@tG@zGJ~sG@zGtr(hURrG@v=p  
G@QG@~zGG@zGJ\8fG@zGtr(hURrG@~QG@zHG@~vG{G@~}GzJZG@~}Gztr(hURrG@~zHG@~(\G@~k  
=pG@~J|KG@~tr(hURrG@~G@~ffffG@ }G@~  
p  
=JvRG@~  
p  
=tr(hURrG@~  
=qG@~LG@ }  
=qG@ }J0GG@ }tr(hURrG@~G33333G@8  
=qG@~4  
=qG@1QJ\$u\G@1Qtr(hURrG@PG@G@~Z)(G@~p  
=J,aG@~p  
=tr(hURrG@~G{G@ffffG@~pzGG@~p  
=JSG@~p  
=tr(hURrG@ G@,G@~G@~QJHG@~Qtr(hURrG@~G@ G@~QG@~QJ?G@~Qtr(hURrG@  
=pG@G@~(\G@XJ@G@Xtr(hURrG@G@(\G@~zGG@~JG@~tr(hURrG@~)(G@~PG@ }|)G@~J\_G@~tr(hUR  
rG@ }G@ }G@ }#  
=pG@ }2(JmG@ }2(\tr(hURrG@ }AG@ }G@ }4(\G@ }wzHJ4QG@ }wzHtr(hURrG@ }QG@ }G@ }LzGG@ }`(\J>G  
@ }`(\tr(hURrG@ }@G@ }G@ }ffffG@ }pzGJ4>G@ }pzGtr(hU RrG@ }zffffG@ }G{G@|G@|=p  
J"JG@|=p  
tr(hURrG@|G{G@|=p  
G@|pQG@|  
=qJWG@|  
=qtr(hU  
RrG@|ffffG@|zGG@|(\G@|J=G@|tr(hURrG@|G@ }RzGG@|QG@ }G{JVG@ }G{tr(hURrG@ }  
G@ }"zGG@|QG@|QJ=G@|Qtr(hURrG@|G@ }bffffG@|)G@ }\_  
=pJ@^G@ }\_  
=ptr(hURrG@ }GQG@ }G@ }|(G@ }J>G@ }tr(hURrG@ }|p  
=G@ }G{G@ };  
=pG@ }(\JVG@ })(tr (hURr  
G@ }  
=pG@~C  
=pG@ }=p  
G@ }JWG@ }tr(hURrG@ }G@ }33333G@ }<G@ }iRjh>;G@ }iRtr  
(hURrG@ }GzG@ }G@|G@ }G{Jl<G@ }G{tr(hURrG@|pG@|G@ {QG@|QJ G@|Qtr(hURrG@|&(\G@|ZQG@ {  
=qG@|33333J,zG@|33333tr(hURrG@ {QG@|FQG@ {G@|zHJG@|zHtr(hURrG@ {(\G@|33333G@ {JG{G@ }JG{J

0udG@ {jG{tr(hURrG@ {PQG@ {G@ {PG@ {33333J'G@ {33333tr(hURrG@ {QG@|G@ {zGG@|JrG@|tr(hURrG@  
|  
=pG@|=p  
G@|d  
=qG@|z=p  
JcG@|z=p  
tr(hURrG@|QG@ }G@|aG@|kQJpQG@|kQtr(hU Rr  
G@|G@|ffffG@!|G@|O\J\$KG@|O\tr!(hURr"G@|IQG@|tG@|1\G@|IJ4G@|ltr#(hU  
Rr\$G@!\G@|>G{G@ {GzG@ {zGJTOaG@ {zGtr%(hURr&G@ {zHG@|  
\G@ {pG@|JTzG@|tr'(hURr(G@ {\G@|QG@ {  
=pG@ {  
=pJ/<G@ {  
=ptr(hURr\*G@ {ffffG@ {33333G@ {~=p  
G@ {JYVG@ {tr+(hURr,G@ {G@|G@ {zGG@ {zHJOOG@ {zHtr-(hURr.G@ {  
=qG@ {G@ {G@ {zGJ<54G@ {zGtr/(hURr0G@ {G@|QG@ {\G@|JyXG@|tr1(hURr2G@|y)\G@|QG@|HzGG@|  
=qJ<VG@|  
=qtr3(hURr4G@|33333G@|=p  
G@|GzG@|GzJ>G@|Gztr5(hURr6G@|G@ }G@|yRG@ }JGG@ }tr7(hURr8G@|G@ }zHG@|p  
=G@|RJ9G@|Rtr9(hURr:G@|RG@ }  
=pG@|ffffG@|zGJFG@|zGtr;(hURr<G@ }G@ } G@|pG@|QJ<G@|Qtr=(hURr>G@|G@|ffffG@|=p  
G@|\J3G@|\tr?(hURr@G@|\G@|zGG@|ARG@|zGJ4G@|zGtrA(hURrBG@ }G@ }G@ }G@ }J5cG@ }trC(hURr  
DG@ }=p  
G@ }G@ }YGzG@ }pQJ9G@ }pQtrE(hURrFG@ }tG@ }p  
=G@ }YRG@ }x(\Jp)G@ }x(\trG(hU RrHG@ }zHG@ }G@ }p  
=G@ }C\JT.G@ }C\trI(hU  
RrJG@ }1p  
=G@ }1  
=qG@ }\G@ }{Ju-G@ }{trK(hURrLG@ } \)G@ }VffffG@ |\G@ }zGJ\*:G@ }zGtrM(hURrNG@ }G@ } @G@|  
=pG@ }6=p  
JQ)G@ }6=p  
trO(hU  
RrPG@ }G33333G@ }LQG@ |\G@ }\$  
=qJ0\*G@ }\$  
=qtrQ(hURrRG@ }G\G@ }  
=pG@ }BffffG@ }QJ{MG@ }QtrS(hURrTG@ }G@ }=p  
G@ }yG@ }Jt0G@ }trU(hURrVG@ }t\G@ }ffffG@ }XzGG@ }{\JdVG@ }{\trW(hURrXG@ }G@ ~33333G@ }Yp  
=G@ }zffffJ@G@ }zfffftrY(hURrZG@ ~QG@ ~G@ ~  
QG@ ~'zHJG@ ~'zHtr[(hURr\G@ ~G@ ~PG@ )\G@ }GzJhVG@ }Gztr](hURr^G@ )\G@ }zHG@ }G@ }zGJI`8G@  
}zGtr\_(hURr`G@ ~G@ ~RG@ )\G@ }  
=pJP<G@ }  
=ptr(hURrbG@ }G@ ~G33333G@ )\G@ ~G{J>G@ ~G{trc(hURrdG@ ~QG@ ~&ffffG@ }GzG@ )\J,G@ )\tre(h  
URrfG@ }ffffG@ ~G@ }vzGG@ }vzGJp7G@ }vzGtrg(hURrhG@ }  
=pG@ }G@ }QG@ }PJ7G@ }Ptri(hURrjG@ }JffffG@ }qGzG@ }zHG@ }zGJ.G@ }zGtrk(hURrlG@ }#QG@ }QG  
@ }  
=qG@ }zHJ6G@ }zHtrm(hURrnG@ }aRG@ }p  
=G@ }zGG@ }qRJE<G@ }qRtro(hURrpG@ }=p  
G@ }QG@ }'QG@ }4QJD.G@ }4Qtrq(hURrrG@ }"zGG@ }BQG@ }zHG@ },\JT,G@ },\)trs(hU  
RrtG@ }"ffffG@ }{zHG@ |zGG@ }TJZ;G@ }Ttru(hU

RrvG@ }0  
=qG@ }W  
=pG@|QG@|QJ?8G@|Qtrw(hURrxG@|GzG@ }0G@|G@ }+  
=pJd,G@ }+  
=ptry(hURrzG@ }zHG@ }8(\G@|G@|zGJ;G@|zGtr{(hURr|G@|\(G@|  
=qG@|\(G@|J>G@|tr}(hURr~G@|G@ }=p  
G@|QG@ }|(JXdG@ }|(tr(hURrG@ }|(G@ }QG@ }|)\G@ }o|(JxGG@ }o|(tr(hURrG@ }zGG@ }33333G@ }|\G@ }eQJ  
e8G@ }eQtr(hURrG@ }XzGG@ }33333G@ }+QG@ }iJ|G@ }itr(hURrG@ }G@ }|\G@ }G@ }|(J:G@ }|(tr(hURrG@ ~  
QG@ ~6(\G@ }G@ }QJh6MG@ }Qtr(hURrG@ }ffffG@ }33333G@ }xG@ }GzJ  
?G@ }Gztr(hURrG@ }33333G@ ~O33333G@ }QG@ ~8QJQG@ ~8Qtr(hURrG@ ~PG@ ~G@ ~@G@ ~q|(JOG@ ~q\  
tr(hURrG@ ~HG@ ~p  
=G@ ~0G@)JnG@)tr(hURrG@H)\G@zGG@)\G@|(J,G@|(tr(hURrG@PG@QG@G{G@FffffJ:IG@Ffffftr(hUR  
rG@|\(G@|\G@p  
=G@QJHZIG@Qtr(hURrG@G@8G@|\G@6QJhG@6Qtr(hURrG@&G@F=p  
G@zGG@2JIWxG@2tr(hURrG@>G@tG@zGG@zGJd5G@zGtr(hURrG@!G@=QG@|\(G@RJAG@Rtr(hURrG  
@|\G@2G@G@p  
=JFG@p  
=tr(hURrG@|\(G@QG@rQG@QJ,aG@Qtr(hU  
RrG@p  
=G@  
=qG@+  
=pG@  
=pJTkG@  
=ptr(hURrG@zGG@zGG@[33333G@mp  
=JFG@mp  
=tr(hURrG@  
=pG@G@SzHG@=p  
J5^G@=p  
tr(hURrG@G{G@ G@  
=pG@J<IG@tr(hURrG@zGG@\*G@  
=qG@zGJtBG@zGtr(hURrG@'zHG@6G@)\G@QJ2BG@Qtr(hURrG@zHG@QG@zGG@G{JdICG@G{tr(hURr  
G@#(\G@gRG@ G@g  
=pJtmG@g  
=ptr(hURrG@  
=pG@RG@ [  
=pG@{\(JxG@{\(tr(hURrG@  
=pG@G@qRG@zGJVg@zGtr(hURrG@hG@RG@<zGG@rQJ|n]G@rQtr(hURrG@g  
=pG@G@^ffffG@hzGJ?G@hzGtr(hURrG@p|\G@ {33333G@;zHG@UJ6;G@Utr(hURrG@kRG@G@aG@  
=pJp75G@  
=ptr(hURrG@zGG@33333G@|G@QJG@Qtr(hURrG@zGG@33333G@33333G@  
=pJ4IKG@  
=ptr(hURrG@G@)\G@  
=pG@33333Jx)G@33333tr(hU RrG@G@%RG@zGG@zGJ8G@zGtr(hU  
RrG@QG@G@33333G@QJ:G@Qtr(hURrG@G{G@G@zGG@|\J~2G@|(tr(hURrG@G{G@|\(G@|\(G@  
  
=qJ4G@  
  
=qtr(hU



RrG@GzG@E\(\G@G@AGzJIOG@AGztr(hURrG@2ffffG@t  
=qG@\*zGG@GRJLdG@GRtr(hURrG@XQG@m  
=pG@C  
=pG@XJBG@Xtr(hURrG@OQG@TG@zGG@,J\G@,tr(hURrG@KzHG@L(\G@RG@\$QJG@\$Qtr(hURrG@ffff  
fG@Yp  
=G@G@@\)J/G@@\)tr(hURrG@8zGG@ @G@33333G@zGJ'G@zGtr(hURrG@G@5QG@(\G@JUG@tr(hURr  
G@'  
=pG@(\G@)\G@(\J(TG@(\tr(hURrG@  
=pG@QG@.zGG@JHiG@tr(hURrG@zGG@\$)\G@G@=p  
JTG@=p  
tr(hURrG@(\G@:QG@G@ G{Jy<G@ G{tr(hURrG@A  
=pG@CQG@G@J)AG@tr(hURrG@G@\$zGG@=p  
G@QJwCG@Qtr(hURrG@  
\(\G@RG@G@(\J#0G@(\tr(hURrG@G@ G@pG@pJw0G@ptr(hURrG@pG@ffffG@hG@J7G@tr(hURrG@G@?  
=pG@  
=qG@ (\JiAG@ (\tr(hURrG@:QG@n=p  
G@(QG@n=p  
J>G@n=p  
tr(hU RrG@FffffG@v\(\G@  
=pG@  
=pJIG@  
=ptr(hU  
RrG@G{G@5\(\G@zGG@JYG@tr(hU  
RrG@<QG@>G@=p  
G@J\$0G@tr(hURrG@(\G@+33333G@G@J\$r7G@tr(hURrG@G@  
=pG@(\G@JRG@tr(hURrG@~QG@G{G@~\(\G@~QJG@~Qtr(hURrG@  
=pG@PG@~ffffG@@@  
=qJSG@@@  
=qtr(hURrG@g\(\G@h)\G@G@QJT()G@Qtr(hURrG@/  
=pG@(\G@QG@(\J7G@(\tr(hURrG@(\G@"G@G@J1G@tr(hURrG@ G@!  
=pG@G@QJ\G@Qtr (hURr  
G@G{G@ffffG@G@J%G@tr(hURrG@p  
=G@+G@ffffG@  
zGJlz#G@  
zGtr  
(hURrG@zGG@  
=pG@  
=qG@ffffJ1G@fffftr(hURrG@p  
=G@  
ffffG@zHG@  
=pJ4&G@  
=ptr(hURrG@G{G@33333G@GzG@ffffJ4v(G@fffftr(hURrG@G@\$G@QG@J@o-G@tr(hU  
RrG@(\G@G@)\G@i33333J\8G@i33333tr(hU RrG@[33333G@  
=pG@RG@~ffffJ2G@~fffftr(hU RrG@G{G@  
=qG@1RG@(\JS7G@(\tr(hU RrG@.G{G@IRG@&ffffG@:J7G@:tr(hU  
RrG@J=p  
G@P\(\G@zGG@  
=pJ81G@

=ptr(hU Rr G@'RG@M33333G@  
=pG@J  
=qJ@)G@J  
=qtr!(hU Rr"G@D=p  
G@  
=pG@8G@U33333J-G@U33333tr#(hU  
Rr\$G@`zGG@yzHG@Y\G@f=p  
JG@f=p  
tr%(hU Rr&G@YG@(\G@Q\G@Jd0\*G@tr'(hU Rr(G@t=p  
G@=p  
G@`(\G@jffffJ!G@jfffftr)(hU Rr\*G@t(\G@G@b\G@(\JS@G@(\tr+(hU Rr,G@(\G@+G@G{G@JtUTG@tr-  
(hU Rr.G@G@fffffG@=p  
G@F  
=qJNTG@F  
=qtr/(hU Rr0G@bQG@QG@F  
=qG@J?zG@tr1(hU Rr2G@G@zHG@G@(\JhPG@(\tr3(hU Rr4G@G@zGG@G{G@Jh)G@tr5(hU  
Rr6G@33333G@QG@zGG@GzJ3G@Gztr7(hU Rr8G@  
=pG@RG@=p  
G@Jl`G@tr9(hU Rr:G@G@fffffG@)\G@(\JF(G@(\tr;(hU  
Rr<G@(\G@BG@G{G@4fffffJGG@4ffffftr=(hU  
Rr>G@;  
=pG@zGG@ zGG@CQJkG@CQtr?(hU  
Rr@G@RG@gRG@"G{G@ @(\JL2;G@ @(\trA(hU  
RrBG@HQG@HQG@zGG@=p  
J-G@=p  
trC(hU  
RrDG@XG{G@G@XzGG@fffffJWMG@ffffftrE(hU  
RrFG@G@zGG@G@)\JLG@)\trG(hU  
RrHG@8G{G@~p  
G@QG@9p  
=J8G@9p  
=trI(hU

RrJG@jG{G@p  
=G@FfffffG@QJ-RG@QtrK(hU  
RrLG@QG@GzG@G@pJ G@ptrM(hU  
RrNG@  
=pG@33333G@QRG@QJhG@QtrO(hU  
RrPG@(\G@G{G@<fffffG@`G{J8iG@`G{trQ(hU  
RrRG@SRG@(\G@RG@ @JT[G@ @trS(hU  
RrTG@G@G@IQG@  
=pJ\G@  
=ptrU(hU  
RrVG@GzG@  
\G@G@)\JG@)\trW(hU  
RrXG@tzGG@RG@  
=pG@%zHJG@%zHtrY(hU  
RrZG@(\G@xG@=p

G@VJeG@Vtr{(hU  
Rr\G@G@,G@G@(\JgG@(\tr}(hU  
Rr^G@zHG@+\(G@zGG@(\JpG@(\tr\_(hU  
Rr`G@5p  
=G@7\G@ffffG@zGJnXG@zGtra(hU  
RrbG@=p  
G@\$QG@zGG@J,-3G@trc(hU  
RrdG@.\(G@ @G@QG@9  
=pJ.G@9  
=ptre(hU  
RrfG@,zGG@GzG@,zGG@(\JxKiG@(\trg(hU  
RrhG@QG@G@QG@JhG@tri(hURrjG@QG@M\G@=p  
G@zHJcG@zHtrk(hURrlG@4zGG@L  
=qG@QG@:J"YG@:trm(hURrnG@RG@  
=pG@(\G@33333JG@33333tro(hURrpG@zGG@.QG@G@.QJLG@.Qtrq(hURrrG@)  
=pG@YRG@QG@QJ}G@Qtrs(hURrtG@G@QG@)p  
=G@QJG@Qtru(hU RrvG@=p  
G@O  
=pG@zHG@(\JG@(\trw(hURrxG@RG@p  
=G@zHG@(\JdG@(\try(hU  
RrzG@'RG@(\G@(\G@ffffJtG@fffftr{(hURrjG@  
=p  
G@RG@(\G@  
p  
=J{G@  
p  
=tr}(hURr~G@(\G@<G@G@33333JQjG@33333tr(hURrG@QG@RG@@(\G@  
=pJpG@  
=ptr(hURrG@QG@(\G@TG@JhWTG@tr(hURrG@  
=pG@G@)G@DQJ'G@DQtr(hURrG@(\G@(\G@  
=qG@(\J|kG@(\tr(hURrG@G@2=p  
G@G{G@%J)G@%tr(hURrG@AG@33333G@G@JgG@tr(hURrG@ffffG@#p  
=G@RzGG@(\J4G@(\tr(hURrG@PG{G@ffffG@QG@zGJxG@zGtr(hURrG@G@QG@~(\G@J^G@tr(hURrG@  
@8G@8zGG@PG{G@JyxG@tr(hURrG@zGG@G@IQG@L=p  
JAG@L=p  
tr(hURrG@2zGG@G@(\)G@aGzJx@G@aGztr(hURrG@  
=pG@p  
=G@|G@zGJ;@G@zGtr(hURrG@ffffG@dzGG@zGG@ZzGJJG@ZzGtr(hURrG@WRG@pG@4G@V)JD:G@  
V)\tr(hU  
RrG@\_RG@ffffG@PG@s\JH:G@s\tr(hURrG@QG@RG@=p  
G@JJG@tr(hURrG@PG@R\G@G@JJG@tr(hU  
RrG@zGG@)G@IzHG@ffffJLG@fffftr(hURrG@|zGG@G@zzGG@zHJ  
8G@zHtr(hURrG@G@(\G@(\G@  
=pJSG@  
=ptr(hURrG@GzG@%zHG@dG@  
JZmG@  
tr(hURrG@zHG@<G@G@\*)JuCG@\*)tr(hURrG@n  
=qG@G@DG{G@QJ8zCG@Qtr(hURrG@

=pG@zGG@RG@QJpRG@Qtr(hURrG@RG@  
=pG@zGG@  
=pJG@  
=ptr(hURrG@RG@I(G@zHG@6QJ&G@6Qtr(hURrG@G@RG@RJ\$,G@Rtr(hURrG@p  
=G@G@QG@=p  
J'G@=p  
tr(hURrG@G@RG@  
=qG@  
=pJB\$G@  
=ptr(hURrG@G@G@G@-  
=pG@iQJAG@iQtr(hURrG@jzGG@vG@\$(G@j  
=qJ1G@j  
=qtr(hURrG@=QG@GzHG@xG@JQG@tr(hURrG@oQG@=p  
G@G@JJHaG@Jtr(hURrG@hG@zHG@G@p  
=JwQG@p  
=tr(hU RrG@QG@jQG@tzGG@ijfG@itr(hU  
RrG@(zGG@G@G{G@5  
=pJ`G@5  
=ptr(hURrG@G@K(G@G{G@JhKG@tr(hURrG@YQG@33333G@\*G@n(JCG@n(tr(hURrG@/33333G@Hfff  
ffG@  
=pG@33333JTG@33333tr(hURrG@G@RG@p  
=G@?"G@?tr(hURrG@fzGG@RG@zGG@QJ }G@Qtr(hURrG@G@RG@G@JMG@tr(hURrG@=p  
G@G@G@BJ<G@Btr(hURrG@zHG@G@8G@\$)JDG@\$)tr(hURrG@vffffG@QG@QQG@RJDGrG@Rtr(hUR  
rG@~zGG@G@p  
=G@33333JJjG@33333tr(hURrG@G@RG@\$G@\_  
=pJ|XG@\_  
=ptr(hURrG@G@  
=qG@G@4(J\_G@4(tr(hURrG@)QG@p  
=G@zGG@"(J&yG@"(tr(hURrG@zGG@G@QG@ffffJG@fffftr(hURrG@G@G@33333JG@33333tr(h  
URrG@QG@=p  
G@~G@~G{JG@~G{tr(hURrG@~G{G@G@~QG@JG@tr(hURrG@=p  
G@QG@G{G@[(JtG@[(tr(hURrG@  
G@QG@~(G@33333JDxG@33333tr(hURrG@G@-  
=pG@33333G@%QJd3hG@%Qtr(hURrG@D(G@]zHG@33333G@IGzJXG@IGztr(hURrG@[QG@G@=p  
G@0QJeG@0Qtr(hU  
RrG@TG@RG@5QG@)JeG@)tr(hURrG@G@QG@G@JbG@tr(hURrG@zGG@GzG@b  
=qG@QJ\$OG@Qtr(hURrG@QG@zGG@G@33333J@`G@33333tr(hURrG@x(G@G@-  
QG@J8eG@tr(hURrG@G@  
zHG@8G@m(JVG@m(tr(hURrG@G@G@G@J)\*TG@tr(hURrG@33333G@G@~[  
=pG@~g  
=pJPIG@~g  
=ptr(hURrG@|33333G@}'QG@{G@}  
=pJVcG@}  
=ptr(hURrG@|zGG@}  
=pG@|=p  
G@}(JrG@}(tr(hURr  
G@}hG@}p  
=G@}5(G@}=p

JdG@ }=p  
tr(hURrG@ } }RG@ }  
=pG@ }  
ffffG@ }rG{JG@ }rG{tr  
(hURrG@ }x(\G@ }QG@ }!(\G@ }|QJEsG@ }|Qtr(hURrG@ }/33333G@ }|U(\G@ }{<zGG@ }{JG@ }{tr(hURrG@ }{G@ }|bQG  
@ }{G@ }{33333J8yqG@ }{33333tr(hURrG@ }{  
=pG@ }|TG@ }zG@ }{G@ }{33333JqG@ }{33333tr(hURrG@ }zzGG@ }{G@ }z  
=pG@ }{Jx\* }{G@ }{tr(hU  
RrG@ }zGzG@ }zG@ }y  
=qG@ }yRjyG@ }yRtr(hURrG@ }z(\G@ }{ffffG@ }zffffG@ }{ }p  
=JG@ }{ }p  
=tr(hURrG@ }{(\G@ }{zGG@ }{aQG@ }{G }{JeG@ }{G }{tr(hU  
RrG@ }{  
QG@ }{zHG@ }zzGG@ }{(\JuG@ }{(\tr(hURr G@ }{zHG@ }|p  
=G@ }zRG@ }{^QJ@ }QdG@ }{^Qtr!(hURr"G@ }z  
=pG@ }{(\G@ }y(\G@ }z=RJH]xG@ }z=Rtr#(hURr\$G@ }zzHG@ }|p  
=G@ }zzGG@ }{r}(JPnnG@ }{r(\tr% (hURr&G@ }{(\G@ }{G@ }zQG@ }{JH^G@ }{tr'(hURr(G@ }zQG@ }{;33333G@ }zG@ }{Jp  
G@ }{tr)(hURr\*G@ }{fG@ }{zGG@ }{[QG@ }|\})J3gG@ }|\})tr+(hURr,G@ }|\G@ }|QG@ }{G@ }|,zGJXG@ }|,zGtr-  
(hURr.G@ }|Ip  
=G@ }|RG@ }|  
=qG@ }|  
=pJOG@ }|  
=ptr/(hURr0G@ }{G@ }|\G@ }{  
=pG@ }{GzJXG@ }{Gztr1(hURr2G@ }{(\G@ }|YQG@ }{ \$)G@ }{aGzJBG@ }{aGztr3(hURr4G@ }{:=p  
G@ }{  
=pG@ }{(\G@ }{QJCG@ }{Qtr5(hURr6G@ }{  
=pG@ }{G@ }{RG@ }|\J,\G@ }|\tr7(hURr8G@ }|^ffffG@ }  
=pG@ }|=p  
G@ }33333J[G@ }33333tr9(hURr:G@ }|zHG@ }|  
=qG@ }|zGG@ }|qRJ ngG@ }|qRtr;(hURr<G@ }|\G@ }GzG@ }|33333G@ }|qp  
=JYG@ }|qp  
=tr=(hURr>G@ }zGG@ }~W  
=pG@ }zGG@ }|QJZG@ }|Qtr?(hURr@G@ }  
=qG@ }|=p  
G@ }|(\G@ }{<)\JaEG@ }{<)\trA(hU RrBG@ }RzGG@ }G@ }|  
=qG@ }  
=pJdI\G@ }  
=ptrC(hU  
RrDG@ }|\G@ }|\G@ }|G@ }QGzJfMG@ }QGztrE(hURrFG@ }QG@ }4(\G@ }|p(\G@ }|33333JX?G@ }|33333trG(hURr  
HG@ }|\G@ }|33333G@ }|"ffffG@ }|:\J(:G@ }|:\trI(hURrJG@ }|zGG@ }|QG@ }{QG@ }{p  
=J@EG@ }{p  
=trK(hURrLG@ }{ffffG@ }|zGG@ }{G@ }|pzGJhFtG@ }|pzGtrM(hURrNG@ }|zzGG@ }|RG@ }{QG@ }|  
=qJ(G@ }|  
=qtrO(hURrPG@ }zHG@ }G@ }f(\G@ }GzJ@ }G@ }GztrQ(hURrRG@ }QG@ }QG@ }QG@ }QJTqG@ }QtrS(hURrTG@ }(\G@ }  
=qG@ }zGG@ }XJ!yG@ }XtrU(hURrVG@ }oQG@ }zzGG@ }G@ }RJKG@ }RtrW(hURrXG@ }:\QG@ }SRG@ }(\G@ }QJ?G@ }Qtr  
Y(hURrZG@ }(\G@ }HG@ }  
=pG@ }zGJ0?G@ }zGtr[(hURr\G@ }  
=pG@ }fzGG@ }G@ }@\J\*=G@ }@\tr](hURr^G@ }6

=qG@33333G@0zGG@s\JPBG@s\tr\_(hURr`G@zHG@FG{G@s\G@QJxG@Qtra(hURrbG@zGG@p  
=G@\G@  
=qJ0dG@  
=qtrc(hURrdG@RG@G@ffffG@\*QJjG@\*Qtre(hURrfG@G{G@G@Y  
=pG@33333J\_G@33333trg(hURrhG@xG@G@8G@RG{J4FG@RG{tri(hURrjG@r\G@RG@p  
=G@JdG@trk(hURrlG@QG@jffffG@GzG@8zGJT+NG@8zGtrm(hU  
RrnG@G@HG@ffffG@J\$oDG@tro(hURrpG@G@VG@GzG@GQJ7JG@GQtrq(hU  
RrrG@Q  
=pG@\_G@ffffG@8JNG@8trs(hURrtG@SRG@yQG@G@ffffJBG@fffftru(hURrvG@G@7G@G{G@(JCBG  
@(trw(hURrxG@+p  
=G@Ep  
=G@\G@ \J7AG@ \try(hURrzG@ffffG@g  
=pG@\G@\JUG@tr{(hURr|G@  
=pG@3  
=pG@GzG@J2G@tr}(hURr~G@(\G@+GzG@QG@/RjB@/Rtr(hURrG@?G@QzHG@G@+zHJLuMG@+zHtr(  
hURrG@zHG@HG@zGG@)JCG@)tr(hURrG@zHG@G@G@33333J:G@33333tr(hURrG@QG@RG@G@RJ=  
G@Rtr(hURrG@QG@O  
=pG@G@8JIG@8tr(hURrG@;\G@o\G@\*ffffG@NffffJp61G@Nfffftr(hURrG@4G@?QG@(\G@JX8G@tr(h  
URrG@G@\$G@G{G@ffffJAG@fffftr(hURrG@  
=qG@G@ffffG@\JQ3G@\tr(hURrG@  
=qG@`QG@zHG@RffffJ;G@Rfffftr(hURrG@G@%\G@G@J\$>HG@tr(hU  
RrG@zGG@G@33333G@n)JIPG@n)tr(hU  
RrG@,zGG@v\G@=p  
G@Q\J7G@Q\tr(hURrG@aRG@jQG@zHG@ J\$.:G@ tr(hURrG@&zGG@pG@  
=pG@GJSG@Gtr(hU  
RrG@RG@G@QG@zGJ^G@zGtr(hURrG@G@G@G@zGJ6G@zGtr(hURrG@G@(\G@  
=pG@zHJ4G@zHtr(hURrG@zGG@RG@yGzG@  
=pJ3G@  
=ptr(hURrG@ZG@=p  
G@6zGG@JVG@tr(hURrG@g  
=pG@g  
=pG@zGG@p  
=JK[G@p  
=tr(hURrG@  
G{G@I33333G@(\G@ zHJz7G@ zHtr(hURrG@  
QG@9QG@G@ffffJXLGG@fffftr(hURrG@\G@nffffG@\G@8JX>G@8tr(hURrG@G@p  
=G@zGG@\Jl[VG@\tr(hURrG@ }p  
=G@G@QG@\JRG@\tr(hURrG@\G@G@XzGG@s\J4t9G@s\tr(hURrG@<  
=qG@\G@(\G@  
=pJKG@  
=ptr(hURrG@zGG@  
=pG@pzGG@xQJp@G@xQtr(hURrG@  
=pG@  
=pG@|G@J\$G@tr(hURrG@ffffG@(G@G@GzJ@G@Gztr(hURrG@RG@YQG@G@T=p  
J0CKG@T=p  
tr(hU RrG@6zGG@]p  
=G@  
=pG@ffffJb?G@fffftr(hU

RrG@G@,G@(\G@(\JBG@(\tr(hURrG@G@G@;p  
=G@ffffJLG@fffftr(hURrG@G@zGG@G@L)J`CG@L)tr(hURrG@"=p  
G@|G@QG@ QJ\G@  
Qtr(hURrG@QG@G@G@J8\HG@tr(hURrG@GzG@ffffG@dG@QJG@Qtr(hURrG@%G@/zHG@ }  
=pG@~QJNG@~Qtr(hURrG@~zGG@~Ap  
=G@}33333G@}LJZG@}Ltr(hURrG@}+QG@~G@}G@}{(J,GG@}{(tr(hURrG@~(\G@zHG@}G@~QJJG@~  
Qtr(hURrG@33333G@  
RG@}RG@}RJ6G@}Rtr(hURrG@~g  
=pG@~zGG@~G@~zHJOG@~zHtr(hURrG@~p  
=G@~p  
=G@}zGG@}RJ70G@}Rtr(hURrG@}G@~t(\G@}G@~1(Jp\*G@~1(tr(hURrG@~XG@~`QG@})G@~+33333  
JC5G@~+33333tr(hURrG@})G@~=p  
G@}w  
=pG@}J+G@}tr(hURrG@}{\G@}QG@|G@}=\(J-  
G@}=(tr(hURrG@}ARG@}{\G@|ffffG@|J%G@|tr(hURrG@}9p  
=G@~GzG@}%GzG@}J6G@}tr(hURrG@}RG@~QG@}{\G@~ep  
=J3G@~ep  
=tr(hURrG@~G@~@G@}{\G@}RJ(S\*G@}Rtre((hURrG@~ffffG@~G@}  
=pG@~(\J9G@~(\tr(hURrG@~QG@zGG@~zGG@Mp  
=J@G@Mp  
=tr(hURrG@`G@zGG@G@i\Jr\*G@i\tr(hU  
RrG@YG@x  
=qG@~zGG@@zGJR7G@@zGtr(hURrG@33333G@(\G@  
=qG@  
=pJ,G@  
=ptr(hURrG@  
=pG@(\G@G@ffffJd6G@fffftr(hURrG@p  
=G@G@~(\G@\$J2G@\$tr(hURrG@~G{G@\$zGG@~jzGG@~Jd|.G@~tr(hURrG@~QG@  
=pG@~)QG@~PJ<G@~Ptr(hURrG@~.QG@~ffffG@}QG@~hzGJ5G@~hzGtr(hURrG@~G@~zGG@~zHG@~  
p  
=Jp  
#G@~p  
=tr(hURrG@~a(\G@G@~G@~0(\J\G@~0(\tr(hURrG@~7(\G@~7(\G@}ip  
=G@}{(Jz2G@}{(tr(hURrG@}zHG@}GzG@}  
p  
=G@}IGzJBG@}IGztr(hURrG@}  
=pG@}33333G@}eGzG@}zGJ:.G@}zGtr(hURr  
G@}G@}p(\G@|GzG@|  
=qJ:G@|  
=qtr(hU RrG@}QG@~"G{G@|QG@}JA]G@}tr  
(hU RrG@}KzHG@}  
=qG@|GzG@}{(JAG@}{(tr(hU RrG@|G@|  
=pG@|ffffG@|\$(\JtIG@|\$(\tr(hU RrG@}  
=pG@|G@{GzG@{J0EG@{tr(hU RrG@|@QG@|O  
=pG@zG@z?33333J,G@z?33333tr(hU RrG@zrQG@{zGG@yG@z\*}(JPnG@z\*}(tr(hU  
RrG@zQG@zzHG@yG@{G@y\Jp\_G@y\tr(hU RrG@yG@{1p  
=G@yfgG@{JbG@{tr(hU RrG@z(\G@{  
=pG@zG@{Z\J[G@{Z(\tr(hU RrG@zG@{QG@z{(\G@{(\J5dG@{(\tr(hU RrG@z(\G@|zGG@z

=pG@{G{JlJG@{G{tr!(hU Rr"G@{gzHG@{r=p  
G@y  
=pG@y  
=pJCG@y  
=ptr#(hU Rr\$G@zj=p  
G@{rG{G@yG@{qGzJXG@{qGztr%(hU Rr&G@|G@|QG@{zGG@|ffffJG@|fffftr'(hU  
Rr(G@|bzGG@|bzGG@zG@z=p  
J@CG@z=p  
tr)(hU Rr\*G@{G@{  
=qG@zQG@zQJhOG@zQtr+(hU Rr,G@zP  
=G@{G@z\G@{1\JP@G@{1\tr-(hU Rr.G@{mp  
=G@|G@{?zHG@{yJLG@{ytr/(hU Rr0G@zG@{R\G@zPzGG@z  
=qJPG@z  
=qtr1(hU Rr2G@z8\G@zx\G@w\G@wJ:G@wtr3(hU Rr4G@xzHG@zGzG@xQG@yQJ/G@yQtr5(hU  
Rr6G@yffffG@zzHG@y1G@yQJ" \_G@yQtr7(hU  
Rr8G@y  
=qG@yzHG@x G@xg  
=pJR[G@xg  
=ptr9(hU  
Rr:G@xG@yG@wQG@x.\(JDyG@x.\tr;(hU  
Rr<G@w\_zHG@w  
=pG@vR\G@w3\Jx6G@w3\tr=(hU  
Rr>G@wUGzG@wozHG@uRG@u\J@G@u\tr?(hU  
Rr@G@t\G@vo  
=pG@ta\G@u!\(JtG@u!\trA(hU  
RrBG@uQG@uQG@tQG@tzHJ6{G@tzHtrC(hU  
  
RrDG@s\G@u^=p  
G@sdG@tJG@ttrE(hU

RrFG@v<  
=qG@w33333G@uG@wQJG@wQtrG(hU  
RrHG@xzGG@xG@vPG@v\J`vG@v\trIetb.  
Date,Open,High,Low,Close,Volume,Adj. Close\*  
19-Sep-03,29.76,29.97,29.52,29.96,92433800,29.79  
18-Sep-03,28.49,29.51,28.42,29.50,67268096,29.34  
17-Sep-03,28.76,28.95,28.47,28.50,47221600,28.34  
16-Sep-03,28.41,28.95,28.32,28.90,52060600,28.74  
15-Sep-03,28.37,28.61,28.33,28.36,41432300,28.20  
12-Sep-03,27.48,28.40,27.45,28.34,55777200,28.18  
11-Sep-03,27.66,28.11,27.59,27.84,37813300,27.68  
10-Sep-03,28.03,28.18,27.48,27.55,54763500,27.40  
9-Sep-03,28.65,28.71,28.31,28.37,44315200,28.21  
8-Sep-03,28.39,28.92,28.34,28.84,46105300,28.68  
5-Sep-03,28.23,28.75,28.17,28.38,64024500,28.22  
4-Sep-03,28.10,28.47,27.99,28.43,59840800,28.27  
3-Sep-03,27.42,28.40,27.38,28.30,109437800,28.14  
2-Sep-03,26.70,27.30,26.47,27.26,74168896,27.11



29-Aug-03,26.46,26.55,26.35,26.52,34503000,26.37  
28-Aug-03,26.50,26.58,26.24,26.51,46211200,26.36  
27-Aug-03,26.51,26.58,26.30,26.42,30633900,26.27  
26-Aug-03,26.31,26.67,25.96,26.57,47546000,26.42  
25-Aug-03,26.31,26.54,26.23,26.50,36132900,26.35  
22-Aug-03,26.78,26.95,26.21,26.22,65846300,26.07  
21-Aug-03,26.65,26.73,26.13,26.24,63802700,26.09  
20-Aug-03,26.30,26.53,26.00,26.45,56739300,26.30  
19-Aug-03,25.85,26.65,25.77,26.62,72952896,26.47  
18-Aug-03,25.56,25.83,25.46,25.70,45817400,25.56  
15-Aug-03,25.61,25.66,25.43,25.54,27607900,25.40  
14-Aug-03,25.66,25.71,25.52,25.63,37338300,25.49  
13-Aug-03,25.79,25.89,25.50,25.60,39636900,25.46  
12-Aug-03,25.71,25.77,25.45,25.73,38208400,25.59  
11-Aug-03,25.61,25.99,25.54,25.61,36433900,25.47  
8-Aug-03,25.88,25.98,25.50,25.58,33241400,25.44  
7-Aug-03,25.72,25.81,25.45,25.71,44258500,25.57  
6-Aug-03,25.54,26.19,25.43,25.65,56294900,25.51  
5-Aug-03,26.31,26.54,25.60,25.66,58825800,25.52  
4-Aug-03,26.15,26.41,25.75,26.18,51825600,26.03  
1-Aug-03,26.33,26.51,26.12,26.17,42649700,26.02  
31-Jul-03,26.60,26.99,26.31,26.41,64504800,26.26  
30-Jul-03,26.46,26.57,26.17,26.23,41240300,26.08  
29-Jul-03,26.88,26.90,26.24,26.47,62391100,26.32  
28-Jul-03,26.94,27.00,26.49,26.61,52658300,26.46  
25-Jul-03,26.28,26.95,26.07,26.89,54173000,26.74  
24-Jul-03,26.78,26.92,25.98,26.00,53556600,25.85  
23-Jul-03,26.42,26.65,26.14,26.45,49828200,26.30  
22-Jul-03,26.28,26.56,26.13,26.38,51791000,26.23  
21-Jul-03,26.87,26.91,26.00,26.04,48480800,25.89  
18-Jul-03,27.11,27.23,26.75,26.89,63388400,26.74  
17-Jul-03,27.14,27.27,26.54,26.69,72805000,26.54  
16-Jul-03,27.56,27.62,27.20,27.52,49838900,27.37  
15-Jul-03,27.47,27.53,27.10,27.27,53567600,27.12  
14-Jul-03,27.63,27.81,27.05,27.40,60464400,27.25  
11-Jul-03,26.95,27.45,26.89,27.31,50377300,27.16  
10-Jul-03,27.25,27.42,26.59,26.91,55350800,26.76  
9-Jul-03,27.56,27.70,27.25,27.47,62300700,27.32  
8-Jul-03,27.26,27.80,27.25,27.70,61896800,27.55  
7-Jul-03,27.02,27.55,26.95,27.42,88960800,27.27  
3-Jul-03,26.69,26.95,26.41,26.50,39440900,26.35  
2-Jul-03,26.50,26.93,26.45,26.88,94069296,26.73  
1-Jul-03,25.59,26.20,25.39,26.15,60926000,26.00  
30-Jun-03,25.94,26.12,25.50,25.64,48073100,25.50  
27-Jun-03,25.95,26.34,25.53,25.63,76040304,25.49  
26-Jun-03,25.39,26.51,25.21,25.75,51758100,25.61  
25-Jun-03,25.64,25.99,25.14,25.26,60483500,25.12  
24-Jun-03,25.65,26.04,25.52,25.70,51820300,25.56

23-Jun-03,26.14,26.24,25.49,25.78,52584500,25.64

20-Jun-03,26.34,26.38,26.01,26.33,86048896,26.18

19-Jun-03,26.09,26.39,26.01,26.07,63626900,25.92

PK D-.';

elevation.npy<Uk7Y56&&m~99XkJZ7mwM?ym<mN]wmq-Zi%3SYsrt{=y{[&qLx#xMz-\*wo7&zvoGjw]z1] t[Cssju':7K"W-l.%uq]Tw\[[7t3wwmqP4OHfxy#%O'h?gePo'qMo7ySL073x'e<c~s&/pK

p7c3\_\u]0+

11xw=|dm>x@ }79,q,x|7[mc-rysiw7-vKL 8&:(,,Hx|Ff9Jt]~r2'5~Y.;wy9

s^F>QSBK\UeHov\_2]0w^``;cxua`{>|BOW>n[Kqw\*3.~^s\};?}O'@ {d7IRB1c):\_N1

[\*2\*26p;6M =k<?1b%lvY`pVuPkw?.}Bct-39j#x47\*c>pnX,@gZ`n/V@!n:9exHi<\*`

Ji]L(vw'y

X?D#9p

k^Du>w n/8gz\". ^\$[pM7U!W\*IqPHxWm(

pW/|&|p&RB/nVg%i,U|fIp`p7O[Ug#@\_Xwcf9 'g%df)]je/@4O=xnXr?Vl&@%<L`=Agye\$)

)9\

PV79X pw^ RFl>X~R9M)c(+z} }a

?\*XMIXb'7]41y]p}I8."PO<3bB?PRw(d<42^73zp8.j(

.7gOvXSP+ t:=81\_6r'YC\IL?A];]PrV/0Dt`YGE04H\|\_m,CyX]:+ Wf98?-T]p`1XNhc<x.Z?wxv'Pb/d\*

.u>s/KF{].AqGtO 8'Ww?B1.?)>]Vz4/G8MH@ywXJ&/qz\V:cmgC\*;>o^iXduPOF%CAV

xi8'@>L~zB@m?GyPx7Q~'E\_SXsXnc0IZblzCg(+

]`\*tq,IR>J1K239 u].

YBC!jV6iy'c)we,4K

07J=i\X\H832P,'7F%~aFnXk J,D9^BV3AN\AWN->[8bs\*B#}pg\*w(9]qT[pT|\_1]f<h6+=02y<z|cO{C9sx@x@

^GUVxWMF?uww\*4.V\*(h<P|V\*?hD]vs~Z?4FqA" G|0?mjzpnl)~v} %>Y\4x\_6u/dt}f: ?#m:g^\* \.

RAq^?\_"{v3dmU,02&?`Zx8CT2wwj`{. %oYfk2LY,w:OL^\$|\*

uUy"<(d3oa] %2puf]eV[|]Ou9#MdXd938f%Avp<p g

t|e{gvp+A.ZX:fqAwu>v

III

wzOO&FozU;h~z?[\~BCnX<67DghV]c:Tkzf~<KO{/=i1/VIPcDf:vozaHjs\|-?4o7IclOd+T gJ^\*]H=:]

;{"}\*9Go%(VBT0^V!|"yYIHf\$GL{ W?KOY}((W"4n6Y9Q\*s"3+L\$+eo/gfQq<cQE3xW'CR` ?vB\*1!F

yjGle<aTrUD^hc(!'L4|qpellrfZwcezo#Kv"C@f7IAiI[yq,^v\b?Oe{ vG~YKPYp%e4yFxCaO/Tc1\C#-

\_8&!733}\$\vFR myh[\_> ?QLfB%o

\$3z}l

4{ @fG?MG</^5/8:!UKc^i.a2&5~a

a%y<

&3H{ ^Ir<m^m/E6l,'H&pt3efW|G.4}n-x

R<!k

MS&)(|E)Y^\$t's?@>d5zi<f|e>YydPHI>b,P:IO]q^X3

]O1^XbOgs m+7d~?)\*2QND\_~GN23UNW\$I:=0" g63uP\$2Kah{ GIY;daU"SVMk8a>q\_|{\w(dI0o`s

&Wl<9}

mg3 h]Q^1}z0;+c m2VcM R|e:Nh XQYXJ"@I6p6a.@|"k4Ox'\$mTY9+\M\_we0?N\*2zO

7ECl=?~t|mp]A O797uZYPVv-6Tv id55<]]`e~H|7L\$

XOWEXWv&t</OGgw;~lvHb\$yf/43"Kl {O:&F{|~O,`P\*1)n7T

Ywk:xLzH2YY@ }>T\*VrdSP6;#?}E1Hg\* <j>j;@#t+6}c/ZI\$X(\_uV5\$% }C!2hk8f9#]1N)fO@]ab

Wq>+;zf|O/"#p|h|D>:>]PiYu/CxHh`7\$?\_{5,SV\*\$y{9{/c&Pd 9gON\_9]#YGe3,Wl,`0 KZ`O7h Bo>

Y>3d!|#,%y,IS\

O~kZ21e}k1H tP,p?Fds n`C)ifE080(c(z1c:"")dnGZ y#Rx3#a/@bzZ j2#s.

S=G+(\d8OjghUu.\*X]w\_s4\|2G+[ "92R[H.!1IRxr  
/h;Q8QFY1XxB|  
,f5)2c+8};F[x~XMc@VPk9I@p  
-ggYzBSG-VT  
9s[ 4r->k\_ \$FzgO~Vc6/4W`FV4RwDM6Y/ZC6:HT4"7"eyO<%(a8xA>]G;M.Od+pbitPX;\*+:?GkM)Wk(F&)  
a1F51B?0owY5.\*-nH`fh#XN>&;Vn8bn~O04kk=je/4?D\$zda5AK+"!N<#h#kf=V]R)&72S>.m(q? 3@%i- 71NT)\_  
Gas6X+\#2RFSxX0bCwtw]vV <W'Y=sGCcpPg0a7y)V:HQKI=Vh;"\$A" "A%e#<\$~8<+>U/Or^/z2ikis;"Byc-  
;&CO(^VEKAXXcbK5  
h\_?IRb'HH!Q<Gg  
d3\*hp<Znu4R).8uwghSp9pl|xxn\*P7K3\_x@9<Q{\*Tp{LeR'}\*5Hy}evZ59f  
6X!K@+8\$=F#Rqf}X1'bmk={y1HuCx>[g7ZIOb![:.?  
:DbI+1sy2\_(d7 yzm~`=e-RFag L@+6b=2)Z,)8Yvy</J\_>9\$Y#XkCcl7`AU9]gKs2ceC'#6r  
K?c`e&sB/%|]gSKD!w@WCYQ`mMA 7k  
N\2x>:[9;f4bb~`  
F[yW<%gRA!|O@x8]!b/(>K04Z^- ,fn4V")\_P4qp4  
!H%w+\*sCL;(Chl3j|/  
rg5|8n0a;YXdzu  
7q9 sO4?>M0{D/a  
"#q+#t5eU~fr(OKha,`23lu,no/C~0K&!W(TLNbLSxgbMqI#RE>wfr0y)}[%Ogs!Ur#Qr)Qj}\5  
UsgB#MdVrWUGr<`eF`|<@#\$p=Yot  
5<U(#!hf?U7R\_2K<TN{-78AECAo(@kD%#8g2P<:(X#MTA  
#(\$\_^f=NmPN)KOOsYYkfX,j5T>92S mR98F14(\$Fc#kF2  
3~'6)cn&`)Aqt9Cf{?n7xD}kkY5@^Lbhdr8Z\$+bT8i I3Ma`w.NWGDG,4ha%TX1:.5w`fxj;6Y!Oe<G -  
H<{X\_n#q|g},s&lSlh+X,kIJRI}0rp{k{D-cYia#WyG/,ejM3!.e0(Im  
sXUYa\*dFXXfpX8Qo6L7`~X6SeaaK&mPNZc&yVwEW#OjpMQ6\*'aFEjYB9HO]ui,ueGnLCIwyV2E8<k&hUV|  
01qf%`p}V0<s/`Ke?p%P!Wb6%&A.imCfo\_yTvhgl  
FZ  
<  
OQ6|1XEb\PLol  
u'DW~}=pm22Kbi^3rGO+"VwY^iz\_P(3B%8,|&4H8"K&sFn^oYS%FncV2{LNeQ5G@VYcpG\$qv\*K8VL:|7-  
!\*\_`N^>In>~yO'@wrO+xX3|ZfE  
1 "AETFuy(qUcjm`9An  
E\_zZ7R]-j'yW@!G6ioy7T#UWB!hXq%\*9qv^"o{!Gb@!g ;w-j:]npW"=C2ib9uEWm&U+)uY~e0[ q"Q~b|]rY)W8  
LG=5%o=l2mX\?r\*N  
ylyf~e,cc!Xn  
w8=e?EYJgIn+>xqK: ! <:p++2'RBYuG7(s+T#Cv6gQX"#Y%0|8<a|l8XJ\$]Flvhx 4IJ# -"F[ >2@&Aw@Y.Q~`j\*YcL  
QXo'{d`vY.T?oXeC  
Y}H  
"?QIA/9hy[.nM2QSlbe8JGo1o3 J%j} kml#=c6av06)TIZM&@"5Do-\_C-  
e[GgyFdRuAQ:\*K:xb+o\_fc7s52VD&mB%F"TIaO7Chof n-\*L:c6rR:15mFb);IJ<1<gUPq,)O? OIfdfB;8^G`~o]N[  
P|<{f{AyvZTM8\tCDwN0I"c5c2+r8O`a||Sb\_BBgSMN  
?oC  
HX,h4&s#eu-  
g!XXZ\*VWfU>+O#<oVVXzWrUd'(kPeP^@[g/d)h|Y5^g=14VZu  
Xj/"P^  
-eU|(Ve  
\*p)X/{  
FgViuQS\_k.>k5#o3AHq\*>n] 8&\_c0KT

4&J+5<Be;fb\$)N

`

O:{.PrVld.OmY|a)|=/\*Rj=PZ5my71+28kk,1p'5\*6}}\8uLX86[ULJS|k,=s.C  
#|n8=T\$;0\*Z>p~UdxvVrM,G|0P6Y` }i=fm@UNy(rT,V|np]  
m,ba\%94ZaLV+1)Jo)r[^c(RglU`S)|I@(.tNsg|ql\_&|kVS'5`I<1>+#faRJuY#7f<vH;yoZkUDm)  
J@MxxD%YjFq@9UYh]zWT6x-I,\*7w  
NvVo(yZhO1Tn!'6(by\$)pjKwftO7jxP?{ }Z>9  
+\*,S{ \_@BZt|WMVJHF^\$JTCQi1j[&E\@& }N0bhHeJ.5%tc9qFv/t:t2I%FO>^/ ^Ya\*?)eWcjGRTQ[.>R&la!4myyv  
{?VN"eQd8qw:U4Y!FGO,8th  
+ST;!<9g+;vp"7WUD&yLg0[l<P<!1[<g03Vrrj0F4ZuY^ {hY{4}nal,~9N)w,NwQV[]2gI{Xf>^HOI?}A!Sv#l=  
Wym<{eR7)+{[tswxN(w+a2sit\_|^?<.Wd`NE|'ra<YeYUAQCLAEpoU/~`yrZ-  
"HwM^z@&;8Ebmlm3p2UqKz,A"9u\_5>3I4y,9S~cmjs.YL8'8c+RnEu<r,8TS\C`0Q77<F-E1`ucUl(+a6P."gl:5Tw  
}DlfhP8TC#OgSc K}mA[-@ESUmIn""bUo5  
<)oq`NNEsp[qUb{-/5P1{2,f^ZC{WjPq!n:hC=4qQ  
hh7  
+rC5#^UIYb'c/C\$d;(jYnd\_|gFFU![zK{dv!pp#VkrZ99GzE("M,\  
(|MNC#j|SVPOXG+ [ (%|IV>NOQ&[-~1zk]JB[(Uqf\$`q`c|jn%!Q  
BG(Yjt(^rp  
m|v1?hj\_/\_+7x'Y'R0XfCVX}~Fn[c5T]GgIsRv|pU:CB|M0vAb<GYTZQNU#Y5DM)  
y|VLL>;\_EKsB3,@Ui%'UO}idf9fQ&u bW2'WU54.nb^Rec|C)HXYff#.|Wqii^KoO:k\*<wTl>kb\*  
0,IG1|Ke&|R&=v?>.`ui  
-be9[<ZznP) ,9\*9NJOWoe}m  
kcrD{s(k0glcwNB@JD0!.JU,#|b^,pW0UtUye\*6W4IS+6\_I  
o",uOLMzY6).<|r)Bt1TrkLG;=}>O+bHErUIWIHYHWD~ImMaCGo;>D xZt oT\_\*bc|^6?L|Jd-  
j'~V7\*5P5m|qym,gfFbeFD#ob+|uS P=pTWYUOhVQ)wChz?|uVXTC@,lg|va|Dt>|kt=)xf ]^VQOGiw/-N-  
fjrC?XFDiY\*\*WZx3qM` }qxhhfV:<?re5QE  
~R@`93Qq|U,P7wND' ;+ouUywA(WHYx>xwTeuJUTOl~/yMcmQ-sM}  
\$u4,#  
z@?+k\$<dD^TSIJVQ2vw(B)L'O^A  
ty|ML%SaQv3E16EbE-9I:pj|C}k7-!od5W9G.(J+,|jw1\$X1\_!Cal=w&5"}sCEU-+YY)\*:\_E  
v++dWnasch?3Nc5kf  
&cu\*)s\$ETN% cb&SN'&'k;  
D\*hu  
&  
(e'TVCSVr<;X^UQ{G#|/3d|ng^J|= %b  
WBz'moV|s-+}2,j)l2HxKSUFWMB\$UVhkh  
ZzFY9yJI< {o&hT<S~E\*W-  
3zx9%kj)YCd8+MXz(Ca0Pteu}8oI@hb&vQuc]NRvOl+Zl64;VEEdLs\*k\*s|y{A/6\*~K/2Fi8Ix+2gU9Kki[+r,h.g%?  
)OS44X\_S  
z6=>PEE<X{v+iVDjl|iBzTWO#+,z.W;\*m{XVy?uZU^h7=  
|)6Id?ZWd  
hj ]m.z%-5[?!Dm< ??Xv\|H(TO"J\_N#(c/ZWob\UEhd;%f<X!  
I+}gykbWg3/z|ywT\_;X3+rk\_  
ird1n^16&r\$  
"7vet[KHX[Z4gSNRmJar^OH?e  
Z/5\X^rT-WjB8+/ey5(=4Ivspg^\$US~.`ke`f4!irD^etYuzt>-  
b+c(,?wZ\_UqIJ|3.[|!/+;U5i.DV\@C7^b\A:QXtFS2U+~\$`yvZ`'Ekpe^uMjG\$SaL,)?ZYY}bbU=\$P}VziINU\Qcgz4  
V\@gmLH\_?H\_OMBADhp9,{,|9kUufPI(Yh/r/Ar{V^V^#2\$OT6Ve.R<Zk}{5To+a/=e\_

5.t\WEksgXd\*GH2  
N/z,R,b"7\}<JGC'{8\_9Pd>`sX r Pw{9fugeU}m^j,a\* UkZ\_x~&+}\$]"8  
UMarO%H\$kt[jmGHUXm!QCn%KNuzZJoa\*\_j  
k;pVi=1:J[Imha6n?4\_Si@0Yp%;.Aw3re#.Tr;PL|!>|Z=eChfU1A|:k  
Llzn@:<U7  
wP=Qj<SS :I<Q0SEb<P'3~fX\$<UlmW#7YuE'Wv>z3m2S3\*m1PV>@dj-/Q\b+T2ByM=YETI'C-.I#x  
y7{.XZARMvh2{2}u013:fY#@+?y?QVQ=!TEu5  
oVgF\0B;i'IKT~4Z[u{T" s  
vVLFbL\_]ZqYuSd)r]Z<0`RLYR,u#ICslH5GN=ZKS  
O+kv2pTzTxJrkH=#zEzygNE7]YJoeXI@ .qGY:~?Us<Dg)<@W9U4kS^'nVb}yX+{CX-(<o"x1CZ(\$D  
br+bn2Bow^<IjZ[h4YU1Pr:~'@DR/ z-GbsVvwaX^R=b\% }k\*{Of3)5F%d6Deglm5ouf  
\*:@\_}@?su192I4b#cbzlPvPT4:  
)BV14VTrNZegjF!\XmO-o20kyS-qznW\*\*\_i\_5/\_~,|jy\*t,ET9!WE!WzSbJly7#Eu&u!X#:XNc]zb  
j!N'Spb]L2RAub^">\*Vz%SPgxNQ4vh\*\*P5Y\4R -!/Rr0TtzOLs,o P1{Iue6PVMZA[8\4QRwRWm6V~gZcb  
\_FZqzPUU?A\*  
=ni"D=krSUSVvcmwPB uQ}gb;(\$)ntF'Um.:Xz[+,Wv[X\$/f8J;#me  
G~?4<PE=aYgjd8hU=waW1Y"=-!@rphWY  
u?!?puo\_87c()MyV2@?N]V&B?V\*r>tTI e]W-  
K++YVX4UO0\_I!k+gYx3vYo]N[noUZ+\$2=j\*`ze[7MW[^ZZPX\*XTE?C3c@0Riyds"~?d,j{iEZ;l9d%m((UW?![  
{F{8uTd:;!WzeoTmlK\_hD)g7U1p\8FFV2T.I|Rt#~W'1V+XQU\SVX'r@yV7QJkEV`R;h:|cmgh\_  
n+(K)dUZ\*d,bsKiVX@(\*):r:Qr1eUSTceZmQ0;uin;  
;:%.hOF% }Ju  
9I'Kac(!WoL?'M3y5AW Y>|eYf@n8trls\$ir`Lk]c{:6PDc\_TU6h!i5^}-.vEy%5{U1EQ>v[ghPS]}8]W,.Tb-  
~r5uN=#Oua `cJvcay;|jgd^ld:)UzD2RG1'D[hY?!S7I8d]sJ4:gbq:EUuD!'rq]D+h,)sAYz955TfdW<Z\_YSKhOR  
Q4^RE}6:}jgH{0zH#{\*kdcw\_>zp ZoZfMJf"w" IoYs\*r2B{WA#E  
z R<o\*Ki^'  
kl"h45>DZTFu  
N\*c FSvY|'e]7o-(jWr|[We  
QuuxJ;  
95d4(hf%n6gr)+eTir tpK|B ; -wu=uw#^<1.4Y>+19Tt9c}ji%0UH):@o}sUPw\$/y~Vb8Wn}  
4Aln+21Oz[UpFFO4./ix/.]pdGdIEH  
QYWFVasvLIO~?^<\*YL\* e  
IOX{V5t\$oki<eW@W|FS|EuT iCN'J  
<w^\*+&9P\$mMY|\$si Lx  
z<HY^mNV-  
]QivS6utlS@O}2rc1>Q4KD#%q+q7Vf%gaU\_17,Zu&KOWzN#9lb3?99R(#ZNuh<ZThZq{NdXy;gkSUUTiRd  
d"3\*2)gN;Sz!K[41VkdIXpb?  
\* j8UYQM!KucA(nmUx=R+@5LKyX[,^ueb=!|By+X< 2[;&.&W^~yyCk-yoO+O[#z\_e  
24Q4.S\_zOpDrN\*r\*X/OC\$yVNMG^\*t=\V537Y'M"gbH9&9{T--#sY}>c9P.\_qJ=i9-,]y7Te5]Q-  
<mQFT=yLjHJ-FhXShVOjS7Qr;!Y^!U/Qe?/4?#vII4M89]<T~Y4cKI\*\*v&.Z:H\*J,+d  
f>eLcLnrGDsYW  
'aXv0CUyt:"?oeY4-LXO2Hkvaau9&:UwTQE>-+e:x[ebdj~EBu6:w3Nb,vf1 }3J  
URqJdeU{m;IX2x}[dv+%gO'EmlQF'PG8[tLZF!xc~Scf{9RON0! \_G=}wWn5uvO8=!@y0CyKmPvRPiI  
PJj;jxHUK+bG\$+fXKeEXT8k9/\*ZU5VG3nvwVIYjrm^>W=m7=wgJi=QL;gE+80c\*9ml;rJ6?>ZTW1UP {]-  
,%`J+3r#y)3]6P,TACG~]rQz?uH-J).;=`rg} RRT]\*J#1z73oSQ5-(z4ykEr(?uDs(\a>ioM#HJ]tW{Crsm]EOw  
[M]B2FISIU3N[s7PduU#~L\_O\Vo<k]+\*\_A{(nnEyhOJUfq(#rF(^KAr\$AG1|CcX>\u~/+gaOC.=M;  
+VjTZ8j]j'x^\_V#> +rOBiXq7P~5lWm4a-b&WNYVA|YOu\_  
=BElyNb\*+!+#cV?o[ci@ecAYi(hzyZZUC4{g\*mQIh:+T(C8s@,a)z)J+&+g%,AS^O[H]R/.V=ze~MT9E/,eRN1JW

Q|%Z5-GWY#px\$NfV\_\*Geq8VDGu  
=x(Q{A}CkjYGH+T2Lvzo\*V\$u[tu [+\*TEodcjk0?II5QY{.vJE \_ .Nm9fTC5  
"+rrqy"viIfEKhDvf}z(r+8x/W`wALQxrb1  
\$EjEluiPY4QKOU4Sm}b5wUP^f@D^Wd`G\_Eb<rS5}WeC.;X2)A,jsjX\_B//8G5%E=#?8kk=Rjgh\*jigk:o.:<-  
z@jIox#E%N^.;iY}2!&H2-  
f2TUC{u3%R\$(kQ6JU^n,67mQZ.B)}\$/E;l,CRVP|ueT@RNeFpwOIX,|e\OBfc}Kf.+e3q^9xUZW`t)U`fZCCy  
iL7ue\_L ^7TluWIX(XW(&|z/RU4[@B8qB7xIA+v?rJ&(ynxI[zps;OQ\*rr  
wNP~;y-9kPiL{EaWsq%H\_~9'@#oxQv~:u6A%RiXUP+V;3:#gAl?|uUGu\$.\*YWzF\*1t|E>i|^;VVWL\_(^4eR?:rY  
>]6L^^5Ah!QnUh(dk\*C;.V[uLxIk/7S;4P.Xv[>w`:%<v\_\t?|F4`#mJ:CU)ktaUXO.u!l=(Z|\*~Rb^`e.K  
8n.`7,4:sZ69]b3u?Vm3 kz?A2-92\*KZeSu8>RM`bb"z"  
\_ZyK OVA|e|CDPAi~Nwmd{AU+,"/#)B&K;sTl`#@NEIA1m  
\u<tmYE3dZ<e>URTE{sUvmeHkQ>\$SL=}|@"SWI^t8ke.\EYoyq89+Cu6dj  
eg6o%W%RB71a~M:gNplTON}W^I=Wi&P  
y5\_+w7Kl}.PICMv"~:<pq\*[-SX\*[h=p  
w#u  
`ifyTG<^!|) 4KK(j; ,=-4^X\7>m)TTbie6Ah`up4j`mOA?e1X-3#OZ]RIZij,  
jk-zPT:R~~Bu~jrhVdj,#Z)d|KToG[v.  
a} }5skkwZSGWuG+w[/3]u:Yr)2  
TWZTHr6vu;|-9X{ TN  
V=Py aA|W\_Glf5|wQ{A1FF}v-3Ot&45>h^c\$H;4\*9-v}cNfBVbuCP [j<wNFwX[9+\*iiY|Y  
dok)oS(m^vbko'={D0\_Qe#\_s|e^L"\$zQeSYxGv[j >HtyjkFz2e-!,F;:]8u  
FkG< E19>[1F=O7yW,EbjT2n-;>EwY\_{z+\*-vxQ?&v%ixTvVl{|}FB!'4U<y+F.HxX4<-  
\*\*2\5T+8TY;c8jw'kGkS?I2,wv'}hPe{Ju:=KO+]  
^ua-g{ iH6pMm/G+fv5.hY7@  
f{ \*n`QL)^-9\_\sZ6v![\$< }|!rSGVU!i"kJUW]ZC{dNegT6X]ThLz(q2Gjw+MT5FMCV  
S,NYc9 /7h\oN&kXeeh%X?xfq=>!WdpQ\$6az&\$8v1W:d<|#oz|C"n{,?X  
Go/Vw>u{Pw#3&kOiwDRz/kw\*S6T`elPye+'H}pSb\$cfJ##K\go @{~.tc&a I\_JWxdR}.SX  
y^,#4/7g\_~3g0h\$DQ@\_AiT)AJPJN)iAZ[w~k93s]k{c}Vki95~

AWExWSG6n>`3f1X`G`1XzCdO\\_4.hSdqKN`ChW Pq\_\*98Nm:\_etYm4D1VXPSF+\_OZYsp"2v/Z\*t55mbb\*Bf>O\  
Ak&3^J}YG  
ZaT)m=i~EKsXBgj  
!n<-VUPM\_J\c785HGuG\$R3S  
E4#nduE%'%Le5P"+#.,&Q\K:LE,m!<>d~5E\_1Q3E]  
,EI[NLDvNUn:upM8luzoy\*=v"cx\_eb  
(Nd`K:<!QJ/ZOW]GtEfH|BefJ\*i~LYY^?SYZn9#)DaL`=Fe)}dUOd[A{.U]E[kQ-  
?NsUDAS2wFtmwbu^&joM=cY[aWm=Y7Ft9D>L#Lz  
=o+PW<;y/v\ngN1mKDn/"OYup[x1c/aqVxEY?}e =E 7wX  
V@wcm%o3>eH8O[oJueUD4(se[B1<b+%>N.X> Q%;NXne4b+`  
]IfA|e]]wd,xff:i}q#GO%aGkJ/a\_;"J,US:Z5Lq\$:FZpCqF|R+7bPrmLB0`n\_Xr-  
&"IHV[g8Mje7MjG\_5EOF)J85VTk^ ;9uZ~KG  
Uzhzn=b%aRu&l+Lt89+L}W0L/A@"H NaZ:)/Fj59P}, :ydO  
>z#SB^qsV&|El`-{:e&MtWi#Gj7VF#+3  
sL?8J ]H4}\_~R0gid  
o\*\_HuZy:VLE]fV%-V[y;6(G-#F;Y';tV,chGiF>{fX":?3O3v>g%F.=KlI`H0.S2/aV[8<N=X+u<|z=S9]RbkO  
cY\$+p/uZ|v`TVn1lsYVvqixCT(R{\cI  
{DVkO%N:fkOG!\*j=y?5f4V17Oho3^}vpG^7f(P'~.,H'1yI[Vo%Y!<MC%Okn;ZE?1CM 7W  
f]=3wU3w!ZunsQo,Y1WUjCs4Urt<{`vS3t]7GVfM=F#^ILBdg|"a"hc +5Viv1X4`c5\_EB

xzX{i4]U9 +1H2#V}J+t[WW\*dsjlt[~  
N<9jY3TW>K?mx^#\_9re#^x'}ZYI0X)d([T:R<Cgc+}e!W:%1-8hSjj`-Q2{  
e{Y>&"Bn2G"Te`>d?K@+9>kRks)}FKoJ  
n"s]40("I&5d[ {4i  
=;:;al>9Uz2 ++F~i5]~Mv^Z\*Bgp,jvj,D]:\*VO:X#jFT?aZ+orihOvEf^m\_iVW<I/Ags\_Wy>f~<g  
kzr6SddGw1"(W0UbH=u]z"QZkR<l-Y4gO:N6]@.d&A9XYp&\_T5T0j4\*G1Fk,r6xEthZGROK8Y  
L`\$E#k~y"m8{E\$?TS<Mz  
\*bSXsO  
i,C[4/O<Y  
~bw`iKe}|bZ<a.I'<Z\_Dw4q=g`NI3<=@HLh'Z[Ct1UQYtXl#]g1L;+ux Mlvwgk  
?&/pi?eokV;C=8F~5[?d%,j6f~\*)BvWG=sx:R:Oo  
sitV(poV\3N[KmX7}GWiodF  
DzyzZ^+5;,\*NdJ+3l{Q6bx'h\DVn2@%;4#t7{g/rsAk+>nhP:%\RxB,xT(98rv\*dn)0  
Vyt;|F;\_I"~s>H>bf1-atv/I:S4zJ++I&E6b:9W:Uftkcyj}o`P]-ntH]:8"Aesd\bk&=Pq:V)/pBAi5I  
[+4vr']]!EP?gx2zq GR:fiO5G:E{A/?&hZo" { ^ {  
5oi4H?ebD,>wMo`"i@b]s8ktLIE6WU~1An'Ko8:RG2b6>T11^9;zY@ZYbOin =klt[-  
cM\@,\GV(bO9q&)8FS44|0jZ#"|ew;gW#:)-g7#V{(gEk:a  
d)KodOT(msS5c2bjE.W`3=+,K^b<GaMM"-  
C^=~W~Z:C9]4~ZekA7sh(8ll)^oj^U^potzTr.C>5#RL^8\_9\sgd^{<U\_h]g!o`Mr-79u'g #NcO}XM3  
,b]Dk+mX -5z  
&]&e=:w  
c0NUyX  
JOVW&0t`zPn,^]  
2=GMWYf^L&mRwh1d?#\_stOu(&33VQItG wO%J\*:<:\_p]uVu  
]J  
vL!,)^}n#QTVk2hU!72`Rxf|z<};,HR:~2h7y\*zoawtV1>#^mx#sVyN6v3ZP^@=)AikMZT/+Br^^,(G:]-  
0:W\*Fpz\?)Rq4XkX{Jq8X[Z BM#XBeZ4/Mt:k'm~ 6W\*{&q3Foc}v0+\*6P|hk> Nt^)JQ3teF|EhEy<:5j<`CZb\_kO,  
|^DF\*Qkc#-NTu{2}5z/0zg&=>ZVqLo;?7%Rm=ru?:.\*ctFjJgkW)P;o,{Wj%2\_Vc  
vw0  
0~D=AsX3<g+ T^gP>MD\*{1v-9Y&95}4rS0pvOpud]34G-QoGW:0?uKh  
}ivHx&:}5"T^H~B6'LoR9"7[4AYxj6Z>yO+V~;xptGjJ&ZnD& o~T-  
crc2C6gT3tEO"V/JG"^[h2]Bc!:/Gnlb#H(TP7G@xy3+-VZA7FZdJbZoA]@9@xHv=G@++ Z\$Kz/<3)Fs2P79  
E1@F'W&4w(D4"z5Zr)`|O9vO<I ]gumC%  
3xk,mAi\*U<k|>E4dQ\_{LdOD{a\*6  
i7U4CC^ud5\_p~f,jYh+XTz/"K?H0oLJSxBUOPz2 \$~LEQ5Ck728YP(b8qVe N42=m~&iyrGm~B"~ ~KD1o\*]-wr  
L<gwRyzTZ8{cnZ2[\_t>bvz%vE6  
Pm3j,Awo}<=UfLS{Xh)%|+(\>tVFa(J?\_c-X:7y>8S-Om?3dyQeMa>=GU\*\*sK}j\_3Rv9mzcPzUD#</Lgc7  
-1TdpT5DWHfszx&N=2i  
dtSQ-U1bX!7\_?5?c)e@xF3=bhu%`L'&\_/E9Qti2w(cc%?{L"=JVz\_:T,&PB%mjVa-@}HNd]+  
vGu~r@7Wqv9\*E(&@vG,#6NP4IuzP^)^LYjIFwYt9g~^iWT18Vt  
o]2-u#Dcyn\*Pd/=e/%unBx2;%aboF}T0-Ze#xDM3YrY|JY2[PZ dD/buRi9  
8<#?iYT2ec]oVuG.[0P:hQP=VBYZ\*Q,r=G>-IW39:(fvu8CL{ \_fZ  
hk=ZLDC2y% CxtJ07Q#SsV:KvQ!b+Iv6K/R2<u=/ij w1w\_m  
?jn8sh7{qK,qH^YDHmITmHeQ>VORU`\$BJXfZG7x;c1{DLOj1bZf^5?k=u=qsm3<htA0~`z-T09~,J  
kW|uDTgS({BPfg@7:>r]X<XeNG5jIfWjts3C=4z+}})u=[v2m  
.kj3v+";:]Joc/,Y%W 3HIEt%-tBb6 >5FcUgGJ;WAWDU38?MgZ/z)& ?{sH1CUUQI6R^vVGC=vwC+-  
3aBvj8gv"7r/hOi`HSI:/5;\$7V/.b:\_0l`PuMdeHZk\_G/gcuo\$W\_{KQ>\_5?8FZ3\$R@0ksr~@O%xCuIq:OsEJoc,2>G\  
eR,f=<+&e%3N})F-T8VmFgaf;YKf@:p>\$yA}c%`CJ{v]G)IVXPW\XG1]+C<yn:c

\_ {8!A<)y=amjDy {mF9=t{R[7OF^VF227Zy7x^  
Q4~S8ya?^\_M3u\$RZ\_%=&MyztcV\*V(^#%3\_fl^[\*o#e.giCt\*#^iHa  
^J3J 0+qjR]^p=/Pc)=U-yA(WwMG6Gj'z6(wG^4t'W  
3-HR^?VkJY;"//d9+YFN0\$R54=zVrT('Jy~+k-bJYLNxSW;wUWkO-bt[mFG3myoRM){cKve2 Y aU0~  
;TYt?tfqt`A\*4='TQd \GtGiatOwILVlstdthyr^1j9Q%C\?~a[!cA\_FY#~r>Q]<,\*gt'hZY  
>Ron&%;WYA]kv='GP{?6VLYY  
x1A;E2J]^32u{3if"d%?|^XXIgtFj'A+t|w2K^21YQo!ko!m10nz=<FXIvTs[[Gz5+RAho7|iI5/sW\_] \EH1%QJG<p&{  
+PG{NSN0U:Nr>g`mIvQ<ggmGb\_W&SV~@oFlc.RjZ.y6zC l:}`wqsq6#p  
[i5d^y>Z=n!{h\$\*c?  
V.i3Bst#qSFUXsT2s:Gq3?fNZi} cc\_Y|bnk#\_Zc}Vh]=  
)+t/[X%"j  
Kg5\*z|T;&J95LJl'#e%ln]\_(&%A  
6QAWe  
n=.cc@Wj#HgvbpK"2WwZsuc+.Q4`#:k3a>rj  
RW3#[v9=ZQV/InXZn>bL  
Ez?)NwaZM++df[\*IedsZZ  
><0ali&cq:ctE TGlSr:~oO~We}Dy\*]S4sy E uEnY'3~q{buSE2Z5\*q7:R[l]YXgz}j3Y8p+}!+qlse\$gkv B 8]]VGR4m  
#7:~0h|@=T9?zITf5e<jNs\_>\v.L9X[VgP\$cdQFy9]jiOYq,80+|g-dtiO  
euCG.WU\*'1f>Y+{2m8z}c  
3+Pv5k{uX2Q}G%zdg{J"&huaWEE+6stbjb8\_1ayNe}T\*;AGob:7fx?1Wj,H]]VJ)u\*c+#jb/UxD#e=aliA  
qUQ]{BTP0Fk8ZV= @M/V[W=nVief1s\*y\_5'ul:!!O`%Qvf\_woA1@j9X{g"X2VTZ]:N&u=3:n6^<o  
(i="}:]>#@|y^d~{u5kOz[uA;sSGm+VW}fLzyglp  
,mF7|e.A,1,{S!.ha7&1oV=Oe\*NvM.bFD{W@)%7&eB06aR}  
;&Mk\*{cCA}{z>x(uZ>VRX)T#)/QL6W  
J.2R6:{>:Ap  
Fa45C2;i@z;u)issOZ^e-6mm<s{e>)WIs\$'6P?C  
:XJXAD8\*"ZIZ'm(VQ)!u7>?r[=k,rgiG:0=aPs-C l]fUC#z%jw8F\_-[C;/6!nj+jl(PnFmZ+Y:N)CT  
3K\4;%hWb`oOjsnj~ryz]c=4pGciucs  
(p,dje!b-OotZlvRX2t?5[L-e%~\$+j,f0YPY 23<4|'Kk9HSb97P7;O>QIUrd!E=sg'[X96nEy4akk(PIP0VQUQK0XSF  
|"Z[\HnS+u5kEf<^1tK-1N:  
M'9QpZC.6!9yA^GsTZKF%|ZUsWf&Y/AO:%L ~\zbqNE3W1rR+tl1'IM|+'we%O<  
{^p'ilnmmo';Q1U5Zfo0YVpS\$uM8  
?%2,Q~v}hjzmu=?=}j3hVkwyc!:3Zm#\*of}/^=Ee@pR6rR>Fs;D3S:=Sn  
T2Y6L7( T\*Ktlo)w7B:.PhbO@he'PY.P,q\*m PN1sI#%=",zd"%2D<s~=fDv%]]G@>K?l>kqi  
@D9f,m"x\*6Z@3T(\*\_tG))<({j)#UKI. Oz3I/@sd95Nn'D4u.<>E')Gs\_DH4:Y\$A!].~IV0ZoV/pOQG;BE&3aj\*Zsz  
u5RRZ3Vya,h[pYd<'Ojzq-kd)d{MP2apkNjg/Og>,oz<SpzCgJT\_iV\* {DxL  
GSLy!(c\_GGfjmjf< \[LBXJ9a"vw\CK\_VxfEPc&G,9(Y3\*1u--|m\*UbeAV)-[)A4H-j@6,w[p83U]?!\*Bv%3I  
{vm+={6Z`Fuf9=C6P7{/Wb\LP5ZFIC/kW ;z]s+8;jgS]\*j\*4bYXe\_1GgadO+|, v2[N,+m#lZFQVv  
3:I1#is,|FVgs""V!0j<A{F3S/3e\$OdIOrltobgLvjVXH~\*(t`QApnsx  
NRZ(fi2Ocb'cMlcU;[.IyYIMiLg9)?5JBO@oB}T1gvm?[iudr~lhKW[f<Qpm'sR{ @o!W  
n/b3z  
hk2O\_NZ9"ncteKd[emW<5U>8GZ`i>]s\*'\_g\_{[vyh:wnq-Wyyc?8sK#~c6z  
c.\1^.\_3+B\_XP+"[LDnq1^&T{Opj5=2[Pw6jUI@[#p5"  
l)tg=o<q=?=\  
AFv\*VV0D?-Yw1~y|OB\JvQ\bF=>\*x]#[/qp:Qlb=TUn8\$1uF]xj  
J]M,VbvX[NDp#u\*R\*'  
;18kgU:wrVqEp@.: "S=Fp#uXw!D28\6\*e.(ZS\h\$"{<iAcgd.\lnE6zx-/  
9Q64ELfz#gy,>G=y?F+R\$R?+~M;:d907MBSjlllhMODCgV2^~s\*J"]9\*Be8P\*-



g4RF+R:cHK1k^+,-5=?xMXCY{p7Q2Dr<o(1-3#/eJ\*Kk  
[3p7Ls/&h\_8&+Op9T2dN{#H{y;^?Gj1ascd3gTByhl=,+d^}JmX{0:Vf\_o,c|1yTkWy=ThZ{s(zXj@  
[;f9/6mof2lA\*I]}.:sLIU<tB{b%Ah^ GG}{[\_Fd~vu3g<)Z-d'@w  
VQ:WKyY rW2H8kNv~FMD`k~w[BWDv\*#?KMy~|  
Y>""Xug^18T6L6bQcjV`T:=yfBLsaFIU3:R3(aJYA\A1ZC}')U`g\_z2t\*@BeG[?  
>#,Y~knWh1O\_\_D){ 0lJJeE\|HZNGE^G^;O<zG&\|E;,"\_n/gtub!sp/SV?\GUVZ,8OWd2f4XZ7+eaL \*dC-)McTjD/w  
2k0n#o@x"l6Ze3\*K(kz+Ls!v-C)}x|=]Fw.,r\_5WLj"bX9z\$7.pCS:TBP]?3o5l+?SQ  
9Fda!:LDYY35y\*{L?dX26f.EcpQXgA0l.  
\*Lx  
cOEvw4.o.\_sC6rK`<Q<>VrzVQr'e#YU3#C;Ocr+U8\*u&2h-&IEJ(1VCoNcX0wRe-qPC@;~/  
T{fOwnQF#|a.Y  
kGl!:SXEt[Fy7?F1KNtKh`2|IoVd4Y[@kG?bVyCyw\N>ff\*OQ;6zLuE{yx  
T2es=\%Y|=[^z9s\_jEYsuEoX~htg]Dm\*T5bi7`  
46oi%4dy0LkKh6~\_^\$p  
^<9&' \*j\*C::Fv<Ys=-bJR  
ySBfL4>`0tCLC(niKg~{ :3T7!bl;P/~MDjKuXj3w/EI}?oM0a=}  
@m"L)xs5k0s7Jf 9I7i`(/4MS1o6p)eOh~EZsn<Dk\_v[ v#ke'3'QjeEZ.I=2L";~LV),YkWYx\_O)%w+WNTgUf  
?Uv'nnb5=[[  
7Lfi"^^7CGW^t[7<aS mAQGfD<8XhTRN,ym"Fccb,O/A|w2hqzd=fS.?Eq"{R^O%v<}y`k%udy}`T{8u(7Ps|h5\*  
x"?7N:Z3P~jGp#g11T9le  
A){  
!8UQTt^> 8BV~A){)g' ~Y8/"H!!f-M1{AWO\*BK-0dQ.=G)dL  
4n}gk3n1NF{)ud4:#1^GV2|gVEgsMAKU#aOR7bfl->a|f({q\_CQ"-wN%&V?t70&M1\_\*[o1]66V&)&NGH  
8Kqre,yGVI=Gs+Ob~(mkEH!){(a"5x+%\$ly>sNx(GWJLEdwhu^;{LO]wc|OE!i#6J{wk%O/?1B}GkXKu+cT&S  
=\*n5iw,31qfK7~.v9b  
=( [+ ]\$umIom=7  
Ilj"KH+~:  
NIYyO0ERTpey<)>oe\_}.@VmVIlgu&\_9H9z4U-Hx7!rqEX/  
rOdL"Yj44\_'aojX2#\_kJ9}dSeZ:!:tU2a\_I/Or[ CQoRIBUAOHL  
;=nHNc('10#Y%Y<>:":\9bL3&CS6MpX)`?.0%|,<[\*]t6]+T9Sk=L\`zy8JR}pi)=IVZ?5Gq!xAnmXKN  
+wUE%t !lu! P|UUT,4B?ts\_hghEpSH& }1=U#W~DA#d|]+[K#^v`IAIbE\$[2]W  
seJsY%vP}1~t~~(j<Xb2L;Mhv\*atHz/kr|^sjLII+9x R2\$J&{jdL3  
BCEQD\_0V{Tz}.r)m;\$qeV)Yz> N,/4|>}JibtGO]Z'jOw+iB'LuO{(8>=b@rG'+H=WIZgzl  
]#%|  
UyGC8=k=2TX  
UP{B|f'm4^2QY`yg;GZN'Fw[qZ.EslQy+`0{4E]5ndfs-5<|]G@Akf%RD33G;I""wh=nv4}Z{y06ni6z6\*^3fx  
<s#?JbKS?4;qL'T&  
x@b-G{Yd)h`S&Z+IrYH:T^Q/^(a6?)P(103rZDZ}uf8bpA<Iz?W>?~0>yR&:sQZ#NICQzkCD5C0f61fZv(r6+1>|'  
+A,Wp3kL6\*^o'Sn5QE^<X\_I!(%QVt/k5`4e#e3Y7@gPtr  
dUY%.nV)J&oT{!W}H&p.VAznlVi:%@t9H1S:<(;g.6bkjQJD,h#bi);+(\*jDU.R)QTF&F'T?P3n[UQ.[JqYIt?2gN):{  
!kNmu8\*u>Yb4o2QEp>{"lc)wA`+}.3=LF8o5~0j7?x#T  
m/y\$\*Y`op.-J8#  
O@Zv,n3dNYc:xZ\_smxZ;X&RSmU,Z7`OIwE=?1Vs6YkdaNC[U<a:"+3SWH<-TpZ{F\$).&Jlba36wd>xK(ADQO  
|00]RV5P6bItoc-TBcJ.<gQ5S<?GU{YLNmgY#}owDuskJvgEbd nimpc\$zPthV1Ye#AxxrYHd/a)14(  
Qf+Ez9;e]d;3c&u>bEx}s)^\*,"0>~1M+Q\*F  
>I4d  
x1 irx|<n+H%  
vVulC(M?X|U7-X76L]

#Z^ @[]S6R[d7o`:#"xf\*\*NFY{h!P-4Kqe\$a\$Q\$::, SsXS.~;v20\_O25~Gxk\_&FG\*+vhoJ~e=X i<,>%C<  
g[rWp]f)) 1 }b Ole7-a1 {&?eY=?  
[QQPH~7c6ENp<7pGZ%<4uC+J=83"]G} gCn\*oHT{Q}%1na.&NzPFod6EJX2 gM=t8SFL  
V#agVq\*K8 332[GzQ^e]A;c1f7bm' Fd'ghk#\*X2L"SQI{nPc/avcoZ7O3PfbI!t<}U,sC  
eEewAx=2nU%c~IY;W\_>fdrtU|\$yHwj{&'O[\_7YpVf\I4]  
#roJwy% A#(0  
/M;yV~\*?TzsE<0G=#ZXJ {kgI}`4!Y  
3VyPrVatDP9h  
CEkzoix"Dh=Fc>"arU=p6nGp)ms\*0-&QYIy-dU}%\_2V?'Ebf1%]n.\303~hgQ} >a'8f\*q  
gnZK;/Ji/  
t0Nay=Zewg@eZp Cxxxx\_e'i)/"Kh<'?n<U"3}8r3hXae#jgKVg7\_OQ2P2^jTZj^tC~CM<tD'eme9se0U5i[U%1  
1uu]GcccnY4 z3V54 t  
uAG~bb}STGSyLnh|PYQ,\$;tJjag!;uD:Ff2zXkESygb&=\_Jj w?F} oz<c'8GoUxYV1/ =>XW3W^p&O^  
nq6BFS{"Qxx\_IOOH,;#nO\_WW+ky:C?jv68.OM[-K\_<e\*9CNKjgf%g[Q.>f-  
^j8L))Jgum+` }32\*VuFrxt\$eddBEfsNogzeo\_F/\$GSSk|kf|3kOdB  
oyk.}a?cT0};j.R64: [FCy LO}z;[+y[woX  
=%} YMTyHXSHqGg2.Itd#}`Ob/{ne:`e',uv=\*SmS)MC,t%RIHWyJa} }Arkw\_\_"S<l3!oKwo///([I"cz]1RF0nkSzj,H)  
]zgR]QYs:v;D.G\YeWVSseJB~Jj^!8#~~y!J^#Z  
sTK[Zz#wW{uj^9  
tF=;!/Pq735C:3j[G0b]Cg#e^=9X#\$\_oby,Xx  
8T-}X#=tH>`ypO\PIl2=m{Q7~\Br~\_R6D?GzQAw\J~?2[({=%e({-  
io?.Sv&Xt\_)OoW]e@+BA{EI9/CVivd1eQ\7{8Ks]w  
NOE2ra}+'\$7VC5\b  
%7{r ~ BWP2rMg&zT!c.wa  
9lm7MFSyv7h,;|? H+c{XS,}Ua1J2].QW1YMf4'8~bASG\*qwKpXBD9.<>RNJYc=vg` }Q&Ivru  
2:5zw`fY'km]3Glr)w\*);EWERO5[yYJfJAdYeUWJLEak/Z{ }G96|IYHa6)YW; }Z[k>=SV5a^0&!f\$7K2Cc]}(STA  
`J'v]JDTWCLiW`p]4T.{RDJ'2W"50Saw ?h\*`3#Rhk:MzP3|EG|^DI 10B4=t+?  
<< 3iTT6Mjvch/C|WXhg\*%^F:a'ywQ<\*\_h6` ;VIJV r'X+>Jg\*)Q0^&^CAS!^D.kzEL)V2e&We)}o  
og[NGs3uy0/,57-\|V  
y!:nsb\_B\_mWuRn4txa.a0>h\$={ [W7c(DSM=33J|, \_Le,'GFsECv:f&!?G+h]lbt|hJPz`~kDpO%]}v\*4Oo4JiQH6RUG1  
e!Dq]Mo|]nNtg}Q`^^mpecDyRY\_/;+Yjft~IK.S|S\;SU.\*T2\*zZ?u  
&ZF.g2!YZUd+'QIyH~L!^U<,M-xJ-g<e<aVpLGFyT/\_VnLBY0IP>bj\_:Krw'}E1di2dp'JF~m&KQzGSa`qZm\!Y0a  
+({\_Q)}\$SOKa:Mdy}GG5>}oOajA2YUP-t<^J<ZzF4k\*  
"7A9" Z&G?&C~3  
Y=j,^2#?7GIAR  
iUdt^69)S=dx]Kw5!ZkB-k>Q^zw-Uv>xHR5,rg|FOD&O2#s[ kd\*7T:An\$:kV29})hZ7WgiZz,  
hLMWhl1+M]B';#kodag\$RGIG8tdccO3xN/t{B|I{b2h,VM23qv`jcUD/uUmNN< [9{UyrtK.B{Uc>&z+nAo-  
Gw#4AcGo\Egf,T>^rF(&y;t"vhXByi  
U=#\$=XMY^ivZ;WW}WZ#+5hq\_u3H\*\_vT|UL|YgP6|7SVRVqXxen7v dUYgg,+!2XbBXS/  
/k>gavTO,s5nJ}UZP,73Ext~t+T|iAh+%4eBK}owK^q8R'#gE\ S&k-NA  
[wX~\_yn{Rn}XBqj\_6S[Qvs%>b/Ro==e3@L)`O+oZ@/&>Dq{B{r&Z 4?\_m=\*p]=t%ZQ5ropb)Xn\*|R;uCsr  
Ua9)+O5o  
yvC5N<wJHYCy<?\*2c~ANkR~,Vyay-=yu9s=\*9)K=  
V!0J]dj]aY}ez%<#3gxG1wzlZ)V{4\_NW=+?D. 1.6|N\_3h  
n=D|sEu}D<XE>bT?UjZ"+yIvRZt]v>ZSPgJ<>Y?w@ys?rm63'dGQ^5j\$&6ZcL85Vwjg[o(W>Gk}Vm]J]q  
xP,f!Qfw<~Sb^m"A"\_RNr\_yFDV6y/+\*]\_~&SJ1]ofU~2{c  
H300!  
\*bc>{=\_38q>}ow-

em=vYeeA'M'v=`+WDrcSf&);s;qFr=y/N0xa8"]B&xV1#L)LivoziW3sO'tJSkJVPW@z,3S2B6LXQ2E:w1E4qw&!  
VUy+zM{zCyn`:\_:3,0Ze}Ga3,k  
faf+|&!YvM7:<:uNQK{iKqKrLF{B;5Z\_}3+^pA}k\*\*^  
+=9F}J V~MmEI<u  
d=}\*Zb`kupZ^iSvZw4J\_XIU}u:ea"[P\*J  
F8ctEl\*sD)|BvI.ERw  
/f'<:0bu{[1[y-D  
3QQa  
uVb.aQ2~d}@TOi=}  
V  
%a2 %=\$2g^K\*jgQTG-TYR&fx3{7yx  
>AetxS>WO?Ppa')/Y8=v[bL{D8/1Csl>~~I82\*I#;,'a7J^E=C{?#k~oOalS)9/J011,K  
e\_)2Fv Ya,Ia\*IN/Q;\*O+1r>\*meJi=hl-/@Uo Y(WA:?+y6z8nntXL~MIWzN:g&#zA;fkEZ/]am{;;#OrBwGv,'  
cu +zTa  
VRKVGFD8&-mQ.c.Vi^;aT8|kAo<Ib>39>I!U#  
vo(u7 Kb+;Zg)dCXS7O;`-]9?  
~VhQCW[f/Q+vi>=;RM  
qCGR^}\*oEGKVpF{iYC?}\*z#eF  
`~GYL=VeYR^1vX\|;Dy+s?WR}WYk:\~IQ5wTQ)'X3>vr<FLdh!1[[[0>\wpE\*IdRs)~&\*613'dJ/73]i{~y  
~.9L  
%G"OR\_im"JPDJKeJ^A>n\_OeQfL98;M+J\_SvE006C06(3)t`pJ)W6>Q!u{i\*IGtOC;j  
g%3SP,dVh^7ge3x{&\_WJ:T~eJeko;  
J  
;+jvLc~VnzG^ >TF\k~0jL2f~\_Q6A=jlz0\*xI3um]  
:\_.7E?oJm`7a}2m)xw'F+s<>6' {Zc+Yq^y<yB3|NUE!,CDoqUGtE!ISIN8N5.,Ge Em'fx  
8  
S#;+y>P[\*zf0xYSq  
{=ojXe}gi%g/C{h5\F(;hn(yR r Gf"V}#2;G\_gi#k,DaNO5O&+Y&R[YJip<%=L ]d% @(#Ea  
t(0.c1+tZ(sikV, (b>"Dfq+9~1Y!n^U {!|=  
j4= ~ k|AUe;M  
NcU,  
o6y<w[1?=>p<<tvlr\_!Y]Zo/wY({  
N[{|;|N#{uHKYalGV dvo  
o;]kyWktJO0){ {i:sIS\_+%xJ66Zig~MQ/^t&6(l#[6;VUp6q^5d LyEPyaujLn/|IO3.;Q<T<r {W uLg5p=;TkCzM  
~:n7| WHJ %0s; }^s3wO(s-FA65+Nm&MjL1RukSM)YG55ZW i O#WVQmGWHEyfndBcO+bm]kTD}d /Qz  
W~  
;  
'n% @!)4|"x-3ZSenW>qVRECoMk0>8)b^z~7/z=y<\*-Km|L?z4)l}e~}0  
hG4wq=>.9T)UT~xk|pM8UIGGom=ykoBxVGjjj=+5K1K/)k,{J5jacuvr9\*9-si}A~O xFs  
Rq/8SnUp]tA3Y^-<{QCbwF=YoyKX=VS|jn=l|Eg)x eH1dE3[,mG71\$9PpS,2hSmjzfzQj`I85JhO'YXin^jXZ\_R+Z:k  
F/RuW\*53+I:T\*ltKc<yYqFL5NTy0b[WV\$^V2\*WdX\@E\pa"b"zq`Hoz6wA2WicMg1c{)+  
Ws'p}DS9\*pv!f;nHn\@ov`bk\_?T?s  
n}!@=9"X({  
jHkz-  
XU0=Dj~r~&SF\*^j=G;46(OE}vUh}B ^UzN=w;yWEHeE0~  
{c#%(GiO%5tb61Q&f?PfQ:=x2Zf\*sB-t tyk^uLei:@g /n-5zW  
nRVapR4V>AkcZnq\*zVGyN8K}UpN1!\_p5/fWPw"dgO1+coj78w7kB<y(Gq~2<<1?IQAvW  
jM"Y1dx&qw}JLc]pd6~=ILIA

r0|s=^9"D In^?4;!KJW8!=-%+h0DAW,\_)hk|vZd7Kze wJ0X{Ve\^g};}EC.DJ[Ob7+rNQ+@^KHu~Y  
o:Owhhjbf)ra?plhlh4XCRZh\*-l99yZwSXMx^3Q7Q55I"bt3\_3  
9sDawj":^M5#\_BpY|6LG?+XQgL,1[hkVHsr:WzEK\?W>gu8-d~\$Qu N%?8z6|0Kt)3Z}7E3Dpl/'  
^k|Tf)XxVrRTa&d#fNH}u<lnb\$YJ?PuUc#P}sg  
F|AUeG;GT8R)9|p6UYJS;\$;7 WA]4\_wVe\*HRl2#plMayobqLF1T  
a/WA|O!X7 5K  
5ZV\*:`1Godn>Tq0>`->:\$Rl:FKGKug!VA|kio[BAMO2dXTE3L+"?<3'1[t^=0r~l\*vEkf%"pVXT+Q(TVRr=hW)t  
PTJ4:FzSd:IX/+qs5tW@+g!V&G=LEU\[(,2a\_er5o,=LSNsxATT.  
jnY,XsGpl \$o  
>&B(;v75{AYP=,  
;iJ-Xn4=04k<XN?(mJ2@7~AWGoW6LfYU2QjIUWe0Z6~1\[[  
XWd`C,g>n+cHj0[m;v,}3TxrCOWiTH\us2!)]H0Sg68;s<'wQ\*gevEhu?)>w |  
wc/E+]BV=h4D2Tq'nNT9  
s%b<A  
~')uM>QXM!yDY@yQa;eBO8&\*ws5e7J)jvQkz:I2b2".O>5Xg22hMhuvn1FykT6.uHD{!E^,[MB3n7f|pbQ{:I  
n[:i J"bzZSorw;a%M"}7sr">(PXV9^PYJG1kt&Ls\_u~K<l|vpmkq+'@xK]5;+GT=Fp}CX#~gmnVYI)BVp~L-14!'\$:  
/Yk97g;4I&@:z[tV^^QfhqQLQ`We\$}(TdU?|L3I^<Epa.aj\*o3\$|!#o?E5R'w{(&ts@WpV\*}yOXf9I\*7VJ08LZ0  
Zu1=XB1k%/|H!ZQi(:>+nM(a"G])jcfU\$:K@8J'@:Vz;j#D+)bDtK%<Rk,`j:Ut7%WdaZ  
6gb>V4?:N9)GZ9Ae  
S3+DYc<&[7YX<rNp  
Kjv,+xTQV>:1(^JCu`mx!/%czi  
N\*rwxMxY^N4V<u:d\*s\$^#;16dm=QtN~Hnsa]]U1WUHJY`v\*KNld%Ab]w39OvxJ{H\*.-tM,aviU  
#1(X)t't#iIua43Ve7.b2J;FBv:vF3^|VAUX5^znT7+N,sn/7t~p[c\_#}W?9bv~XW  
N2M:^C!~m3UvPuAs5y|L?="fGQ6bDcK4]+P20)A59fL3fka={5||P4@Yxi.dG\_MOp[/?Kc|%+d=]ysUB~a3lVI&w  
AAglu'1Uf&#\*MeF\*W<Dhoz!:zY  
gED|B+  
1JQTHuHQrnJB\*UVuyj2cURQVr`# 0:FIF]F3@;|fhNZbg`Xm3lv jh8dwV=l3T]D" O\_EVy%<Z  
ea/=EVft`Elif9[J~cv;K]83FVc\*n]  
rTQQ1,#oiA A\$See\_9L<~#\$L?eA8CML0~L9;jx\$+|Q.\*Z  
KwU"KA<0hOxLo&"H>UO}r"pu"v75.:3Y7{Q/iNid)1V7xH|  
QUE"rTUK+y8rTZfU1/0y3,EO|ZZ5>QcG0  
>&f6BSu  
Su\*kO^A,![giNbTIS<Ml'8`j}P{Y\_Az05pV9\~B5He)9<{O(J1%V`.Z)Vr&Q|pGg9|xm9<5  
Q,0c7/}pd'/Fe6D^47q~`Y.Nj0II&FrQ+ PXJi  
]F\_[]zFa4XRe`8;B\$:]HINEz5fklT3:m#-b?(7A  
t0>Y(P0i"0\_U^vR| e"|[M]H2'2f0UgF@sqVJ}q :MD!kMX)ySTg49Z~,e5KE-zKc%wh],8R=9y[  
hKoKNwhM\F'2:"FK6\A{e^YsSi1mZN  
\*7=)F[Y\y>~r []pPE\_]WyZsb\$YEx+?Kf,fV&H3%IR.~(3\WzLJ+  
'";[&nt;uMJy2#<tZ  
7@u'<:%g|e!Tm8Sw\$eS"v0G+o9<+XYI0@#^3:  
ynlG8)-Om\asa`ocX';ztlxEtYg({/9#,GcR8z3%S{dg[E+tb(oQDvr{d X+LC)n/3o\$pm#|VL5|S4d/ev,j=:^G1-  
{D<mV~}IfQ1qTBsW%\*]TsnT'RO[qG  
4W?f{Ba[dkb?!jIOc"3ILUgRDRZqZl  
~6S\$px\$E?;|f|e;Bc\_HiEe%yHM\$yUFu0B\$5j!Lxan<h|eeOZP]{EM?qvgm(b2Mqux#[e5]&\_<Jayh)\_?ra6By\y7%O/  
Z\*+~l8np"  
X+[E9iH]|oQZ++4XV2JU  
3!ea[\VVv(jSLQKuvMTl =1uvh!&1i2IK8 u)~JC\$GS\}\$PqO\*os  
u7j&1;KOYTBqDwc'3'Q>|t1~@"MUhh%3&7o\_1"];[=97=xvp]|3MiI>o?

j5rP1S^&k/}[k3R6R  
[ectaw-1Fzd!0Tt\_G++!'YnY  
WU=I  
i{ ?8 ntgixWdvmm^3Z ]QxP"W  
]F` Yw\*y[Oho&^y;^#Gag<:VwgnLIK&"e)M4WWho(V1[Ro=.)L`Plt \_&^zze^g  
%v\<{]}uknvG9Ndje  
sD-3P]/~\_z.D fV{0V\k'w`qoAi9'.g&[&S -]P^bwM&Ni=>!+yR.H{>5FRl<M^>>{-d~TzX{`<|V>/%GSd#Sav-  
<qbml+UYo0yOu^mK]}I"=o  
{a7!pS\*yKb(:[1V}0Nu6[C v]1 Yw&t k9)f1n1NE\)\m/?6g;UoNKbXI<&c8[ ZEzYLL.#zE5L'@  
u3Yq \*{A%,:7F\$Dfe)x  
^o&\_)MSV^w)Qiy}jpvf}rc=E+ ">fBBzWe?fZXnd#eA:IhU>\pd'G\_RiEe\_[1Lc\X:HPV&L3CY` &{(K|42MtC#z/gGa  
)D@Q8S\$ctuO([ZY3IW\$<GMGQ:Ob~?eFpi5toW+<Tqcb=Qw1YQ<G1wc2gPEnO\*+=:E@h)c/hc2^K8Cvq:UfO  
'AZ{\*Y=gOz>obza6V6Zs^y/&fwvGMB2XW`xSAV'hg~bN3%5 9"3Q=<x4R~BunueYiR3ao  
r\$YLeOs17rNLT/|8t{1lf>a4Lwo 0OL71%`P&|u)wyc#ULyJT0=htRQC^!qw"jM\$Nog(U)~kc9e  
0pUWyctP]v5B3]pKk|@|A/]:[tc6  
XDc;/;%+"z+uEu  
f<6'~{MrvRetZj,Uj 2)pe,JCl>ZAwio\wTM7tL+<=87DV /VAZe-qg-Fixly&}ITViw+a"[3aKY-|  
(>|bYx\$ZwjLwf!  
l}M?,  
d%<01r \$dgkdEQWdUNwhEP|+&\$"jO5  
[%QUJ%.JD7nl3s#?~{b}9q)1vS..U"c?De=PN&cOGowVf;Z\K>KdE9d&~rvL?KS z&VC?;:1f;gSm  
0d"TVa?[:zq~GgRk:/1+Oe:t\*f6wC,bbD}  
<#+jT3w))czWk\*rdx\_X0,  
MfSAase'N^ege {;6Eil:]3VGk  
Q)4/\_Yaj0N)\*X54[SJ%Y\$INT5\$ic2TXyI#[WF11){eH-X  
s  
zYHXOLaCbm#?U26ckoW{1(>5Yd:%u]ptB'8;r6JjUJ:VNYb<Y7v(9?u<O9Fn&\*2s1ECd5e]\_gISyw+S#ScZCm0K  
nm4%qH>cN+?!leVDqh3\*OyXUSun5HQJyI)e)ze1\*}+'Fa{Y+"EW/l;<Ac1Z7Qyzs;VR'n@(HP,[f=3\$-4rh[I>UZ  
Fc[ [O~Qxyj{L Z  
9T^VZg;ib0s,[YPk56o;-b1Fr  
`34R-nQ-jPDk /Ae5EsfyB8jW1~mmyf"\*Gb\2k:+6u'Y,ekS&T} yc:sgYGr1sy%(j|JRX<M9V\*0Ud]FYA<CgPt(-  
6BF<YC\$I|[FfQr]Q90^\$9L|J:.%h&DubI"Wx+xF2ckh3jQ\_;iBDgDJe7?S%Q}jMkLcEZONFUwU!djoj?@WC{  
3s}NVbo-o/^  
b<1kj|{sOe6~G~dK>p[Cv\|v/sI.e?0rQv=XZQJV+(t>tdRG 4~gb5B?S7/rc^Ug'+JPH;Zd7yd%AL!\D^R-  
D=KioRYY(s^=i\_(|XW&d3CZ-]Gx6 Ttkc  
T"hOyDXLE#D'7;E#R8Zz  
:Lr(e+x :[Ktd0`UI-T+?P^Vaw~9wm\$  
\*'  
c\w0fzoQ<oXqc/+<\*tE5Yf,Vo4T"eO]s} Emv7~[Eh%Q7E=!J1~QT\*{yMWe\*(?HgL[w@]t  
k52Q|{K\*1%#3o=w&s^=]"#{5t8?Q=]DSO-A6tE}Vl~|  
H,;F=)!fjGR8zM"6EWkjEQXaqt#fmGR{(RVi-l%77~m~L':s7G)A|PZks];!::Q4o{1m3@b)f\$y\$D-]X-  
o!egt5RyMg,9)N/VtVcgz=yL]?nW  
Z fg[n3A(;x\$X+|E58l\*o)JU  
@ 9Ew?Y+;Y<f,t^0e(U,\*[W4K~|8;]E1HiNXJ'=T  
OSIU  
UcPX'YFIck#\*j`5cH1i3\*6wBpY8}E1!N5WbdA\$SAD.l%e,UYo&\4hAv  
A\*U(cMa%BWZQv"s9Sp-q8,2K\XmQ#@,,\$\$wc;hiT^M>|0(Q/ms/[aNA>]^z9X-&?y)=t?  
'N.\_<IBxe7%k?]ev8d);/^

>  
+2\_PWVp%  
  
Owj;uGZJ\}g\_fxEvmVVUsYQ47N  
^<UXR  
z!5&J&3:3aOZAe21?)db+D<F4'bY0JI>:4:X7\QWgt"\*\*\*=t)gguv0AZ{ YG{+VvO6b0SGQFU8SIy\_vi'C:s9O\15mnQi  
\$O~q&>pij9'9\$Ve) ,G3{ \_r//;>ys|@[T;/C5O)!o<J]P>30}\$IyV<Y1Yze/uf  
O:0HxpUIHC=Uf4U;Hk`t`%6GgnIUd+5A76i1m0yg;\_p>gelegw5Aalh:s!KT<;l-Z;MMZEd-  
lNwOGUWdiA\_1N%phee"4Hye"sftO7|<j"r)^0>far&1YGa2k~hWVvKCT7iqwyB{`W\_JkTF2CyUFYI;:J><Kr}2xZ;;  
ZGk/{Mv~156XeH-\*cgPx[W'o# 3Vt8VJ!cYn{O\*8JGBiJbR~Jz\M&##jd5kz{gU9\*NbQ?-cfr6DeN1S' &  
L~>V[3\1  
uPPjuD}US\_{ifYWuyg5o`u4A<u=Vo0jk2Q&qL2{w3-z9\*nVX;h@YJ'PQXs  
fDY5bZ8;i?|(we(riL\uS|}d  
aIai:L\*\_ \_R<{g^<]TX[xPeVRvuY<k]'BaA  
GzkUjP]TOOVZ#de[Sc\*k^L\$/ idO~97~ %Y/Yx65Wkxz'hde2dfw- ,?)!o<V!H  
jMVR\_cRz\$TqwG8JC0oEHt=2&a#?SykY>L/Bu%ec;;N(= ?3C[0XI  
lN>|#]S[tL?STscp/5^2{9bPQ[\_G)WyLDQ'sMca-p \*{C^WV2kB%/5EHt<4M7E7lW0/aLZ-XL"nF^]jWeVf  
v.?:8luXj<X'V|Kt\$X!W2aLi'7X{  
!9Hdt~i St>%D3e  
w3ob;3uZ;SoIn  
?esO+WKY{r\_g?  
6\$xe^b^o^7,V?~+pXO8;YY~D.Ur/QG3kzzT]I Dp&\>zVA }LBOZa=5PQ\}w  
i\$81\*aR`TxIgc1"@Js`-`/7T?D>U)uLb#&I]xWMg+?Q?pElc-\_%oS~#GKLdu'upt5!kwFq19T[+]`Y^6O\34[R'iG  
\_uCYyh'KIL, <I{w9zDoR=A\_<ky[0:dQcT~3fGPX9GMvq+]V/Gk((^E53)>3sc W+9\  
n7(|CpX8\$Hlm^EU)L;K:Q[fqn>4){ -7jep+(7q>CQL0tGff+=+3@]'"Om,a9I1wJ<Q(\_e{:S  
hIQi7#kp%bU9{;bK^ejb2uEU1z13d}U`{^wtpsd!/7O}L+\$/IVL+[4kN'OPta/L0g?4\*9?gD[EZyJ5\$!!;5wSg'8?E  
hU7cwJ(Op#9gn\$j O\_Hir  
wG56xK]\*Qs8Ce81  
'9kZ;S5}<7'HVtPNt %f~^O5H+Yu"II2+8R:)1  
2#[X|ztZzGzsjQ2a3  
c}A;?\$~X?Fv3  
wOW:gzvhl(TBtNIBUd('Z`MzMCMc^a&p<\$5ht^`9,kBJJPP3kb"?0a&MuaCY.0B]T@4~V|W]zDh+U>C7{0K\_uY\_sIf  
0 Y@[=[9#`Ww>Jm}EKPWS}EZUI<MP+  
}Uy,'1MGEL%UvITMh;nx.=\_l6k2TRly\*OuS#P[@U)6iZ;0m+`F|x1>,J+X3#>Ds&1!:&n(>:ZQ24=HQWc(3UlsI2a\*  
A@n-{|Aa@XkrF^|HAy}9Y|f;.m~ZV@ }e7tk zf3C\*\*q&sz@gT(YLgef|cD)^^t\_&Hg~)0am  
^GxW9YPy>yr\$7YCN}swA[y+  
us0  
O=j{u/O  
~s ,P='wAcU4TqFeUXIermwAIP\*#liOiEm3]M@{E( Z D  
cig;r3zkPql~wzM3}Jl'eO(G/x^:6)tl?DAK>c(<A+J62^{3R F H4U  
wYoIYFu3#AC)-%|A|67Y\WZOQ4\_oG<,9xh`+<O\$XicXhXa\_27d-WM('ODX;LE:EP\_x  
A3gVD^f8jFmV|db3s\$AWV-AyN{|^Y?\_3x.u`LUQ=\$A) 7v7pzQ692~LbZ2bkidb#6uOD7SVfCS&;<Ughd  
5CBaK4}.:G:\*z/b~j|#4}6l5a4ioK>  
\$9p2O17yb">)>x!P5cZ|7gQK.+Eb7WooWD)t5#`T6g8 3=U7#Lfc;\_=7y.[Ii]m)\_P9C"+\_/:>c.VEj+gmL@k,@7f  
\_Yj<|nt<j.tQ;H~o:#U-hOd/F8t`  
T@sTSoXd(+s)RikR7Z7')V`eY=EEN0k5L KjBt5dZd%]akw)+Ua"g [  
hi`>shO A<+k^X\_{ {aAYAmxrPJ9KpW>^A=Zku>/TZ)Lx"##}  
gSHu`=I:\*G<3ytJ

uMFY# 0  
(\*^e<'K2D&#  
LhRv-INi7E=\_U"q~kp& z+&sI9"?z!XS<AJ-5cRCKyJ=c` [HfF64)MaPi\bTA>ns }D4ie#|yT+Do6 %=Wvw9S43{9y  
%<gv8a KT]N=mYLw2:3g.dE`'\_Lz,)]KDEJ\_!07IR77CX7k,8a6Gj=HhvuaZi;9].[4X\_AK3+tf>|QT&l<  
EXQu2{ @G\$A{rE`zmsY%Y|}dO\$9|r} :J+DGN>V,')VR  
oT,f|MfWeI' Wkn?BFLZb-=UHGF#Z3zrwKKVolE31U@)J3cHV=SzI~k/XZ4KumT\_ Wdc&vU%P{ee'}Sknle9I  
e!E@w<QYVX\$w~vMHCzS7KZ/~T(W?5\*OU\_M![hAMh]GESW!3u-#`rq<A0XZ~&W\_','lb4+{~tR+=Gj@Ee  
C5SFkU[le~JcC{"SPb^ bCv';3c6ZW+P]V  
VSpV+kwPJvR>k,{EIJ^LLw\_1}@~^2}PUT8XkZ"[QA+f+KtH^I% @3X'}' uf,w{Xt.u@1  
2\_k%PtVrelOG^I+rAoeMV:}  
58N\$|e&>Wum#y#S3=luYQBX(\;Iq|#5k}.vUk-Nhllud4&@\{e5 D\_>Yp' C\*~Ga\$Q2#~88m=B|  
\$  
#H#[~'(AM.,A'ngua&\*I65\_i(e0AIZ92[ @ @]ju8  
,vKxk5be\$?|Yj=-:~|zWvauq"klmKjfg+|Y++rou"\_u|38=#Gj\*YYO[s!yBV=LQ^`6VyW"fe?7(o6  
d+e3TsH?c.\_da\*,26t4"gl16BVT);HNU[>8` &]a \cso  
Q  
HzJ@d3a'&(FX%Ob9pQ/,f<@Pz\_mEw>mI:1`Ft[,x8]yT'dY3NtbYoBSJcU1oWu8N|o+buNZz9sf S3Ni,|/  
FC}N8T1Q9@cmfC9=0T-Xh1 \*L?'dsblo1OVY^ ;5s0:d  
oPfdUOG)\gT];Z|xK0nZp>p|8j-%wTgDDxpi=-\$3?PRvY"oFUuU\mtaJ\_\  
p41e|)zD7+yL&efIr~sk#q\_Dl=u&TxRmD\*|9YwKIG~+|  
N!h5@vZk0FZY:|F,;dRx+6v/Q!t;=Ac<Cde?e8uwkuO23haeJQe}XY:Z[Y#2`dT/6H~xC%;@|p)s'[aLp%'Q713IafXB  
aI}w,t)Ok~bi(F)[|"ZE=7xQ3Y5iz1Jb;I\* UA=UNdN;KDC  
SpeoP\$"0fS#<+-m1-mSzkE[2Hig\*]6,y'&\$3DS\_k0JL st|v?bDKecasTLbk4i08(zB#  
a\*-oT[kw}  
{/<A52h:|3d)AOQ\*p\_VI\*I|YA/] 7i}'9D,tsgSv|tM?t+[xlQ8(>afjWs{=D.S5T+>` [PvScI2Iyxj7adM:uuH-  
JG[HMnG,8?SGpb<?Tb\=j3jW;=c~\*1\*3W+]JY:hwFsZMd?F}  
<G6lbCZQTuK&?-<br><1^Vb<lv!d%)Z5{[k^VFh+8X+/sTNjUSB;J@}qm7j61CK\*Le!T/'|y\*,Oca%\\*\_N<dvFxDhkdiL2QqWKTx"3TgsB{  
A1<,8zhK&ll:s"m8S1\_%'H"\$axga+` }TBmNv5P5  
:)2Ha}bMm>Dze&d>p<G/x1\*V`y<?q4P:Bc2ufp0k{Nj7~(+.V[Q=1.21)^OxSv5h{TY|,Vq8I&.fy+=W~2oZSW#(C  
~uEhVgy|yb[Mku.6i0C/,Oh]=a}Iu9B6zPXV,.,U9W59pd<W>:P]>x,c5]FPG1|x"Mb"sG\*W`{z}MDXdE1gprM\$Qq  
udO7RsAG`yLUpc+mCs\_]LUyEO2QJ, ~LDk@T30Xa!H eL<O^  
StjaKOkz=p/ FG'Oi|uZaoes\_E@kh1r666`%A.x{\_^qy~>D?l{~WJ/\*c?{<X%|E>@[q k%IANx>~DsVl}f9|3>c\_  
[z3!.\$4]36>g" g\_ycY~-L\$Uq+y-2w:lhUWurg;I#^SDR\_V}.1~o~ng)\_G  
R?ozY>eV\*S=&9CMV9EtdM+Le&\*;=UQH&l)Z@8q{wWi1D=c4jZ1Gyh,ycj.  
O<{=GU[,5U]>jxVX!F  
SQqI<2  
\_#M[Yq5#qy=g%:Fkz\$Pf3(FIXaBzIh('a\_mg;>&@ey%n)VsbT\_.o|NIBp4v^x7EU9btCx'Zh6>Y\={Rk|yL!W8h!vZ  
%b,YjHG\*x; }4|M{ -  
.7iR5WgJwub8CMB?Pv\$&wVn?4f8USQ;[LIut%#f`yuNVp+\_VXta\$?)bn\$,q}r\$G#byq5UupraN,G:&|Bt,0gP#6d4"  
\_e<jNc9%(zB&V'  
m+8jZfV"Y;ze8IR>  
Z~w;{e/&R9^ {?k@4<oa`}rCG(bh< }9` 1475deq  
XWEzl}DCIwmGMK3>:1 @>U\D-V^CqOyS[>\_H]bLW2:YW5S,K)\$>#FrEsau=vTe\$B\_b\*  
U\*7W|SiD)`cXw%\$+BOfW!Uo ;|:d3\*sB7NZ>aUf [gf02YC>A?,lg{x"V\*o~Q~akH2b4[R^m4NB  
V%SOzbic~  
/92I  
Wv}u;kEW\_[3V|+ /C\_%MesfbiUlb:Y%Z{

.w0+s\_+WFA5eOA{)\_  
=lfR\_f/Q(,yzR7M& MLx[IB--  
jb!,4c\Sm:t<x355UT"j]b1Sm{)z2I(Yv|MCNQF#<O)6AW>mqbb8\_Wd}[HKK2V1b'?Dj%\_jMMY6ii\_m5#Zf\X.{k8  
MH|<Vs;X 9\_Y/#&waKN 6"vAgrWq0tOrypy^m+gC1~xBa7ix0l p<1ATm`9XsWYGJE4\*+&.)2;%ckHMhf  
IL`?:hvZ>bZMz6 %.q,Lmq0~#  
\$x&Z)tjZuUrv)l\_S^w  
W=>"uf55?C\_p-U[[^RG% A0QXHNbqc=%#p[  
k;WqWkk"lqqSJf;Wfzj: `qLG'aEqZv()  
{)ss9)%vd{?UE[Nrz ~&C7H~4UG|+\*V^R9=Y&T)lgU({,7V'CZ. `^'nzwe-WJ+<u9QtCP[%G\Qg\  
{Q.-O9"Y4AX#44-7+=7G{3,AXU?"2Rv).&  
;Q|WC|e7?k;^nFB^F;gi?c[?5j~<'>gnV!k%kR`>X:Y,m]E4mnh9>>5%w#  
%Gy\%8n|W|t!  
r}|wVSRqHeW ?=|jt `N/}+.cY#31}GYJ^TKW-z|Sm|U l.k#[BMUg{  
]-FD)5VMZ&if\$C)"CERWz^99B{-Rb9.6ZQWmXUZ}f\*IjBw2oP  
[|h\$CyW7^TjyW%f3TNsd=z/<GK"H|8a{Pos+XNG+E6>UFKZ]w!>&ls|hW[8hoqu\$V&\*?/g]MfD  
p#`=  
Z6G|zUe^>)sCV5tVs,EglyU!BK^Cc1Oj,Iy1WMAfQXgV!'9HM1fh+)bU'W,R:yB0FmBoKx\$8M'cbllFRZ4P^c;uX  
3i5Pe~o\*GZ/UIKOxWU?G<>e-<]7PuW  
uwuo/i7 :bn'gWE#y{zeVga~q1kxPlfo#@mNp>Dw""&O?>X/Y!5xQ<OsT\*[Y;cis.e.EvvCxFqi&kzQg0JsjsX~Jv!V  
/+,+BcEXY&A&{UYPpe,S<HpJ=D8B- }HU{QMv^E?sonV8\_}6:bV4:\$VTKfjyp#=-)o&ftwJ?0\  
HURija.T,{+s"i8~H\*"<)\mh,l}!lA?#wV+Hwd|?[#;y>&d\_U6V?q<OC#o`!.z8,tgV\*XxMO\_{7:2  
KY(TuI6.="ZEy4(QIC+.17MxP+>zw(#1{B=Oeyg]SH5lcmMuf e)CKG  
V>Nvog,:CJ  
\_b~"U&4W^!Be~~U7 (0B)AQdy;]%;jz(G)`LhoiE4|g+dU,U#D  
C/b  
5O6&fU7aos\*T"<#ShflaWD-)Rk|3HHDC7E#D8#i:/aAu;uQ`\$,zs73+LVi,0&-UWq[\_!<uhD+Ny?{v;lHt"  
|733%d^gU5a|8gklr|?RS=-Th?FDC;JDU[nU]3t))Nw;R53=XR,oVc`pfV0G3I7SWXII3!U\*IX6[5^e`  
(((w5@L#T!  
xi\*9e 5wuHKL.sw #KG6wVXMo[/klpln91^  
}c&\_Y#|L+whWOhrD1WHb(!qs>AsNySral\*lm6)go\*f.Mgu9n[6X).(1[7gc|m>V  
a/}|.wkq\qlgX8&mLTStjbuU1VZTy\*biu4a  
K3h!%\*"wP&Tk"%Su'8Ief+W;O=^~T0u\$(<^s6Qbr~\*fr3e)25%Yn)\$LT,I!5KC  
[X]#}X#ED+s#ggixZ6wV/\_pQ  
}V7.zJ]TF  
%8q/x9M>ho e'm4^5~ hV^=\ ,{hIOGJ.bTe<\*Hf~  
SD)hYnn}/Tzg5Z55/+;2^ymxJbuJ}A^KH%\$<  
Z`3#|a9Bm\*RKuJtDLV{Fkq`0k{Hj35J^bWvW6MftIO)63R5^;@S[Q\*3C6-P!3I!<y,}-HM4G"-{!v49s-  
./g<SG\_{DW]SLcXzE  
d6yc\$zR]xyy?jV,[^i.O{;,Y\_bAt!kUvPLPZ7=ihNcenCCEEq  
+30(N  
h1<pPbn{vn\*z2ZPD{,>f#B32c5{w8ge^Rel!gT"}{4!-e}b. .Hw%uf~SsJ  
Ql]L!QEYA^F<9brA0,WGl;gH.,yu4WAWsY=YZ<a<\$kYB1o%J &=4DX3mC;j {?ybbJ7l5Hr|\$Mh=<  
xrlN:Z)SwX'c:[=\*va,fO3lsM4&>Qm\*'v  
h?=@B;Jw1zte|ao\_CAhL3&dU'f]X86?(M)(<1SA6W,Jo'H}pz^q|D&m{b,|9D+W=X&B=A 6U&\gRJO.-  
\*[41~7".+!gOZZ5M'gylh6W1]c4[+\_&F)\U+-3=Q7AL}9C4#G84S+c\$1\$foD8w>dY  
Yz"AB/IG9fAoF]kx[%cRu]'n|X"=Cj;URc-NTUrfc:mru}a?xx  
pm|bhDiet;w~s;y<6+Vmk,Vhre>DxJaK&~%9u&xfccjw+#&^+5hhXnDK|4biSO~|~Th|  
cZRG]1M"dIPyKhM



TeuC"+=FY1E)SweRjXZ\$< ATz+T6de,>TUs,Y& )Q>UVc'N"9ccZ(=!9CYsc4AS]MC#8  
?y\*.sNMBDDk\*a#Z\>Vebg~4+P[ ]wpNhG(m,r'vh:#rPy'Y.:t' 1<U699CQkwV.YclxzsYhV:[S(iB4o'7rFOQmm)  
UT' #JX]m8  
#,p,{U["Zn H#BNL'tym=LIT[0u8[8LC\$X,<'yUU[fX6;GufFE 6gtX~FgDV`B[kcI@/2{,c{|tC&|U2TIP??}3[q=Z"L\_  
} |T-&L|Xn\!<:!>J>[#{+.p\W%6^[-Vd7O3kt'oS\_@/>EW,#y5I>-%d'Ncivhj\_a|K\<\$tubwZ/=-  
e,;e<5Me~uA#ZUs]}{-UYCb@2'NpuYM46Tu \e{E\$nfBg^w\*  
m9(</,QU0D9f\$E;;  
;EF5DjT[\cv  
C#K0,;lkY  
b MpXU=g y& }xEuz!M<:!TWJ%| LS2abty:bCH'5\YDC}eLp)(#"hzES:  
8z{  
y}"2XB\_A;r=6 o&{  
\*QkC/f%n3}5]~(aFx~JH\$rg``Q  
1a98C{9kH&b\pdkn1HMBGT  
R]jm>5%b~  
zG\_PV0  
M4}a,9e%v\7'Z+).xf>lb%5yj}q\*'XIRe FZV|BkDdGXh|y;[?LLe  
  
<"OU~F=I  
~P^0RBT,OjNF3z?U\$=I3KR }-xsu\{ \$3FO6"}juWwX%S9Aq !!F  
ilqn: }uaI.[21I.G|THkc[MCYc5m!Z:'dMIMc|. #()hBtxWq)'W.V+dS&xcryb3B7h\$V  
jIYUX|MiJG3O?-uU`xT#VX6dr&m\*3qMQ<SHNM\$`# #j/'U%X%4e<c7vN#9;=q,~z/66cf[j1W3~!Ye{fc]:^  
&zY(E57oa~%e)\* #xbq\]vD  
^hKCLU4O.NcD {x|n 6!L}B!  
YVrJ[>,yu18>N<G+h~/bHd~%Qy)~CUW@V; 2UMs8\_}AB92<X""cg^H!T)-.hc^+~5V(mSO?K2=V'HW\*cz  
cH?53zk#8Q-\s5d{  
lgVb(+ )M)bjts\$zSax7z?[/N3gb<V'C4V;;b9u|5  
+0!  
j0E&w>HM< [OY7nTaMI  
~nKGctbI#Y!z=9%do=vD}0fhmi;l/:Rn{FOFwo  
:IB4##w({3hNFqUOpd:j-BYHXGIQcUKbUs0:oC0^S3j>{IGbUn\*B\_J'S>DVE|r03X]U@MdM=oY+hcU)}OUT  
aBRkVfTJW\_" )+!BE){  
BQG>\*6^q+;Pk:AzY]dGVqTCS&vQ"hv` { %vfMIDw#xF9oTkVin9Bf{.|M|]tM|wxgob+Ck(5Dt"juE\_>v`gcb9  
4<W'eV5KjY.E:Rd:[f-bRq'PMX4;PB >PWg\$LL(  
noS<~  
NZzoXna&W,1U+VS3qep4XS-jao~c=omjOK#?/&!c4BCG&V^!qw/3\_8xMJgcC#o?66Fjy/j>  
fQ.#XcYF:nm!7W,c1D+Q:DOB3ydt"  
e|-DA]{0[6~p\*+zG  
{ }B[MHv8I8  
  
.\*wcS7sW><KW~-n@Uk}F=\*7?;"q}\_s:&W5K]}\_d9Xc\$Hg2gaF  
b9Mp,[GUtj48SMYJ<\_DRh:1c:vn!{q\_tPnsXwUCq~12'oK'u}]  
7D;ISNoE=iw5[=~]c}9Od;=1WYgxh s{eMz<.n~g^m~\*:x  
M3<jDG!lmtixB'F|:{<~Wyj1F'|}t+S\}K4=T3IM";gS@XSsR5i4{c'5I}-:GsK3II  
)N&X\,Uh^wte1+UZzj7ETu7fhp! =\Gi0R8RB\*kwpvc\*N1<Y  
gKlok,V9Y0\_:"|xcd^PgU5~W|o09/Wl]:'-1^"M]N:1N5S  
9eD"#!Fw%YInWvcU]BX6Yg/]JqIXAKi\_8]Jd6,^<-xg WL|C1\M\_-FI7i!dcjtMb=LM5hL0!]  
yL%o}j}y%4VAH~

p\$?K#/Somgta|O(tQ&bB.cTvd;}&vOMPpUF"<N;hg#=#h@c?f(mB\*RK"I~% @ug17vU)[Xr' U{2A5RC!  
EWI-FTd5\N+'-+=4uh)JwhCjn3Q\_/[7L->gT7lfC4k]ypU{U~SX,7+7ML,,\e& [>SGU7l\8c-  
Z7dUE),,7oVkl|@\_zKU)YcB`2T-O0!@!e8MQWR\_ \J6!dRAY]Fvf}59Do!s5R)Y%MIaZ:W#vu;khW43\_a  
pT\_Zb/ySY[i]k,r0k94qD6{[q6FsP+/gLs7PUHz+Q.E>Q  
6=D9:sb3u;p{?9d\*Qh  
z  
+%X{9)XO`zVX^Gzyd~Mh|fV7^s38U>1!  
7JnvMH  
iQ/ubT34A  
IW?O-<9:tiAEcz4X.#9J!TjJu4P%5|++aei)""?  
MGG[+F[! M>><}^h^V8v)TqxT/bYt,dN~  
G:  
qLNd|\*Mnm(xSd"z]x?{wb azh/cgbd4{P|R= I"2YB\$2o&WibJ%9LRW~l>]j-z\*^CM=tjq"  
GFLhUD7q,za,.\$|xx`G]z(qD  
f=,/LtV]gd0'([uUu{S)HiK7O)J{55}\$UG7U18%a1]vf  
m\$~5X:R`U96io\*6d1\_olUWcxh}<a1U2{MM0vhmdO^nLh  
2hGhR2A-Q1Ou7//T?B#+U:a+q~|-c ^njZ ]1dj-  
H{;|1Dz` ]25>BA)^t=w]Xo3+t)1#j@vW4K!ZQ',p{+p\_\_idh\*ngzRYUs-O8z+{!ja0|-  
R]isj>RM[=!Zwq/7VvamW6EQdc& }ab|0&m?w:W[dj%dJ]FNq>GV6kzRErR,o,14Rg?Pq)QupS&NVWXs!h[If]sC  
uoiMaE~ [91  
UY-17md7:D)\`cYoeb,npmwWO=xM7}BJ!x  
='C#X4Xf,W{-:1"SP^FLUx/'7oT/}.]pV(kimN&BPhHM9ji2BS!E,UdZ  
!\_Z71\$5-  
ixj41Z]5g<kU2M=LV15c0\_j~o#:rnDW\*MOj,?qU7M4G{R.QKkdrR4aZ1km6mu"&IDmb9a[pF5q]fg'\$CSZERB)h  
F,M];Y  
dGwD.IBoMO3{?U]X#h:).Uh~f\$XQ3!?'[gbc~Iyc|EA6&yHIFosf6u.:}\*JY(xN.!(1B=|Z8[y>jt>&D]'6J6@!i!4R=3JY  
X^Y'h8Y#^]cUiy9ZgTU45InlTW\_]UxrQm4UPcP4 3@QIeg( y<rYmc0K^#=#j  
1DVcH]w'(!Uufc5?Y7B7iU.HyY;O  
9`0COOU(GgG<^(e+:r5\$(<Ssmr.C]d):W^J/c8\$J^2]7n^>9Q&N42FR4zi1]>a\*x8yVMq@c@p2KCIMUJk  
JW9!NSXD]m5I](7GSRiu<<15qN`iG=yH5@H]A~aQ2 i(W!wS|oXv#Y[?s`sxI u9]&~s-W{  
-)xi|  
0G8ix1."LMn#f92t8\_HVYgqfS11toO(1609G8/!-:MYS[&QxG!bG6cQ  
&nD86d^YMLXM7x'p&U[=,n)P  
qec+iX\*mRaubD(:IQL&d-^6j|i T=vF[4])^XuG\Z6h3C>T 4]rg\_\0cej5]' Ly3nu[ ]b4kRs)7[k2+s=q'  
~<.  
e%2tL/IFyJZ`#g)9::[9eyCIS511/b'}UH  
(VGBh,=]5rr<JHw#e'g[^d2y4BfNm6^J"(DVQ\_s1K`y^wx\*~R\_,Pe#8d'c[]7:`OT  
Wst,1 ,]aUXJx7z&Zl4JD|lQ]ClOxd:5nAC:VR5F\_,{yz  
s&^et ElbH=E]8sC3Z:\_!o^H-VG^ht>.CHx:  
S2\_Pd9\$,q\_NG ? 8)I91XUV'NI>w8O.Ym&')}\`MVO\$]eWy\Pk!,<= 6iFDk<Pdb| j.Gos-  
b)\*yLu[A|D,KkMxHUh|U;"p^,#[ BkV;#iG]}9nZb^.-)Es\_XSbc]Sx\$;Dyly%'s,.]MUj-  
iRwdIU"j57Vvhv.Vr.;?N~xq>^Fd-gfmsT;,TvG74FC\$Q2vg~u  
UE9J[72).6Ae#br0?>!u`7.#+n[T`e5wZl`xM5;r.dzP !gW<gn):!I:U{5/?5Tncx/K`zPO0&AMri#<X^\* W-b  
SAYnscZAh>fve:|pq<n=4#RMq{:w[ZUKPxm^FL92u5ySk4f<6:  
9ukU`5T1]b8::q\$KP4CMI5C[HZmO5HTC~gb 5M>b<ZWuh  
I&ZRbVRkxJ]|mf~+aV`%YxCFYxVF4EF=9xo!^rCo5EF,B7Va7";BoX&  
YvEGy[ ]%k[u3kp  
s!K&=WVOFq1DR"1S~(3-9:bT5,6xCj6AY"5b\$h\$ofAY Gw;UY'6\*bMNz&jM"WuVOX:5G4{ %kMt\_-Fhv}J{~q

l1q!V+r5PuR-&|PJzA+Lz;P;TsdhMkYD,D82S]/U/"  
}bu8[QA!&W\_^j3L]i+pk)ojX5>a%]\$iy||Z6w[;1Y(^1\_qmG1K9D,EkNgwhYP  
}Jb3+:^)~<9|"b'tvln@K["FMoYFXp%U96lY|<MPwC}vaY;oB@r%q<yn:~,70  
J}1w9U!(-  
[9~Zs@p]}CGkf:fW%}A:ry\$"cjU,MfFfIAZ^`cs::b=.5M\*U)IWz0{iB+,.I\$~&Ik#2ZF<L%\_kPAm~?R;n|eK%  
4Vv%K6C#~\$9+<v cfK  
monh+k'Zu4h'A~}-Zcu9G5cE#?e`cKKVpBInfo>izg,M{  
]}&hJkb"Wc-ZfD%D.C(?%r)v;m%0~bC>MTb}f45AohGo:nVhaO|?GB\_.&aFc^.XfGRn51uTNN1&]f1\*7YTuO2,  
B>:u\*upd7.L5k91]Q]\$\$S=d KWGga\$h%.^z(z\$Qs2YTMfGhEVZWle=GTqjncuf  
1.il!4!b` }z  
bHNgd?~z`8vNdwa(VM\oaG\_m.qwsyP\*xU.BWlVlH'V  
e38%hd7~/eM<"QYB\$RZh#h;.0>z5g&Y3W =:ukpf\$?|rVE-cPke<X8ubcNGWV#I7juBa=.^9x@z0|fd)\$f)zLS'  
.Vg]  
K)KemV;8QU9jf;2Y?Xu~  
7TUyEWD{-nDE\*Wy{: {2AuB5bc;Fk+~^RP+&HO%YFU8K>}9{q4Fx#9h\$z\_?/y^q  
QT7y2p}=E6X/v0k  
RDt^KDQ~y5 E8k%q1v zyOz]N%umX[VRpoAX;[fR  
~C?(u%B3 2Sx8X6^eAsrdx-orM^2#7([85tVU!OT{6@k1\;o\*n.3+Ak|X\_FKNX  
[gp{.>}bxF;WD??p"feRf%ClRdb1k?zNRVqZU}>VR3QRwt#a?  
}Pow^&o5]X=|\$jYXYDkK\_'%0")xKCQH})bo  
uQV+{ \_iqpm>YNsCSiV[;WUH,g2&w>ul\$04bXyX7BfmB[V@ }K|{7QY  
kL]e%NMP&t|M5vHQu,UW#][7&[sU\*dA1VA,U\*t I:QSHp=VV  
7\_AT4  
qO^%B8]3IHqLPhcCMOA[Dh\~yO ZgG`=6f)\$Y=|qqbT&MygF  
vh'd6"Bz}8WV)n>ZaO#{ {5x\  
  
~AyH/.!uw}^yR|V\_>EfO\26S[j4U\*,:dbMD:Gwpfy8ns\$f|ao"Z\_KSRf  
7Nx%}'~2L|(1D7Yv|W;Ux|)HNUJTMX|fKcG81%kRjZb'<j%PXZVOGC#B]9g<h\_G(@1z""XF"Zn<v4/7;+Y)Drp  
E30\_k]5w,O:/s:)7)~Ln21Ke TxCO|3]\CO=(U#Z/~Q!g]\$[wZw8Q,V.^s-nAo=>d/Q\*6K%6U|N  
  
c=qRCU=G2Tw\$1|#y Uk! NUJ QR&[d-WB^3qIg(GC2Y^UJ\_\_Ve<G6K)n913/\*YM[pQoK!UqG;)'RcKGa  
&3]75i6]2jwO),"QU' %/JuT8OeCEwp6+}l/rVYhx=SH+g^|{=>O{2}XKs?-d"<W~-  
1[\_xFJ,3wET7M\6RNBnQMzpl2ke}Xg7%rYgV0T" {x  
(N1\_\*:UZmZJL\*Pur `uAz  
,(Jh\$HC3h6~jQH8bN@Eb8Q:</)g::sa9qRO3F  
8W  
C  
hBsb{P} ;+64qs+%b|l]>u5X.G`Zn;Oavp/mk8"x}!%C:<Ao'oX7 )u0NQP7+g"e  
WUw^vn=1f?^@sKh1#=#(v>5sDG{r(:2Zx\*IcHQ?@&C,Km\sV4e\$[#O;^|gaZAZ[.jd<6s)`NNNTKO&2c}5)/h.+cG  
7?|01Q\*>V7  
c\_iYOUV(-!QsqPRo" gx2[,B^-\$;L^("DVwWyK;)9;\_S#7ElcF'&  
r/Ly2N6<zlo;niTko:lifjUVZ  
qhi;bX-q!G#>8Ca=2=d3Ck  
5JHwts8os+ #y|Y"Dzk~ro-'S:k9nQ6f7}+^v,v7okz\$y  
6O=V%og9g?+,{8`U?-M3zPC01GOD2)OA\_pmKcXMPS,A0<f?S67X]  
}5hi\*IF1TYp]y(xYOc78/#\$Cr\$18-5Sf92B+Yse\$0i L\$w%q;toizU[ ^c\_1-  
:=<\$?+mxd6(oA+c|Ai96bsiG1=\*&'kd7gRNFO\$CF+yZx+cyUi5!|z<ITb5[Rx|7 B%O w-qiDHq^|6?PmhV;p={  
zn~B`u(v6j<3?4E8D)6^<N}j|><DM&i#{ -E9?VL&6!V%2s5;6C1P#9C\qX[z ??{3T4{!wc=o% }J1!\*MY!E

x'+AZ'M,`\$"Tx)m\$^MMLb@c&% }UIXCZ#%  
L\_\*GUY?+;\*h#DJq}4PVxnAOV7M@>{ZDVKbKb)[a%nnH4W&Uyz\$Qo8W?z7Uh{gq[^s+\$75\$jyb\*;bp,<,o[]uZ  
{ji}:UXq 7\*9Br7([\_>MA~T8GU~bG7WoU@)u  
)J+";B-T\  
GuLE8h4\rQP85VDC3|n#pYby+xE^E\*3n7Izu,>Um~WU\_kS%Nwbca4|N0mc!FOgp4x{`f  
96|tyfsep731CYekY}>tV+:U6|[di[EXVKlh[cCdMt1  
o+~]X3s4^,;VXjwy7aKi+^,BGS(Y&Mb:~d4MOT~u{ay|r3\*`S<H}`|s>3\1HN4^(DLEI4=0Gv3|yY,qz:YYA Cq6P}X  
a~fr%tWvXw =YN5c7n|!J3WW\~xal/{B&k:uRy|=M4sW<UovrIS.Fk!:\_U#Wvvl2+~EZUVhN  
I%~R7g+j+07`  
fK  
:Wz?Ak21(%T)O,WdE\$]?[CbHSaDnp\_  
i@e"q9  
U1&5>LR<%fEv`sMe  
a\mU:exC'fjF4dxQ\*(um  
MzR|fd!XfP=f|COIR~oK86?37C  
7]MXdU^7Gf^i%8oW=8 VyHzAU>HNX<V}yz?{m~=W,!bD^h8IX  
[=k.JqKsBTUD7cHUwD&#8@wg.Ei/#vn&=;x t'W52nQV6!Wsp04N^\_s.2g?3j&S8+\$){sxy=\_!3M,|\\i  
-Y--AV,`\*X2TePaHU=5+bhT>R1mmUjuk&krTux\  
wx2\_A0LX^LPWj!LM.W/VM./yn(Gk6wQ>o<8  
9DYq;i:Y?"fz1U:dG~\*[] }#^:yIA^DKl3@Z|r{Z}xN#?L[ljgNY2u|k1 L&>1X|I^o  
]o^B,.1C<HXWU}j|8UOT:1#vOc'1Xn`\_onU}tH+Httwww7 ^TFAATE{k1}=m(r,+|#g+g#S7oa^  
Y[B rm3\*#T#=#Z[W;\*3iwktulpM\_1'C Zg@&{o5Cr>(5.fPg)n\_;x'aO?>^pk<g=iD'[Dj5\}t}L[\_o|b};-rs3  
qkS;|\*@bJ\$?v^5\$,QLD/b\_IMP%%dsD9vC|D#LD\Y!gV~D^ 1^-V=2g)BDY!DtWyBBQs6BHsoGr=y:5]\_Wil4CYn  
Y?}\$  
e89D`\*wWn@2IfCO\*e3Q\$WZVwi/RKTFXc~wC\*3]1H=K(XFB?Xk\LNW?OSJZBH;,3@ZA#uLBxQKyxaNuOlz  
\_"Zu=X/pHTSx iz(nVx  
t-(PYbRmQLOK^p~NZb)4.'cJh{m8-t^5vs^J|:o}^snf[|T 6]DQkSNF2~W[S2ipr#>bS-/lv0~t|r\_|?IOG<)S3xLk1Bf  
u{ZsAN4GTVr/+urg{ }7y |fGcm'My3"7w>vE:zw:^m-  
Z!#5mQZ:auh:k%yq'K=]W6N6l~{~9#d!sH6Y8wg\*v\VW9's}~+Ke+/7kv|f,{3\|P7k@L+D~n0,yPuWZP~j"G#y  
t>mG\*F.GB1s8?)Aa!e7(E(dYYP\*gBL|OJn  
HG1rqLEFx}e's!W4\$C aCrD  
?:Ds\*{o"dvCm28IN.X\$|^SDW9k\_N`50kanXYWkScWg^dWywhli5}`Vn<wnc6`Ack30f5n#{YZpvMO`-  
\\5o^VX\_OmIas^|b;?:F>bnIVp|<U4Gu|D9^KJVSz)(%y4\_=}H1|flb)>~}J8L%dpzO\_};|F|\_d(ns'|/Y  
|  
^lx\$5NAI#2>DQt&y0\_iLPn?F=\*k:Qk[\_q~4//xYC)rn  
k{"e{rx=rcI^b^k^}r4'R`IP1X<?<|u9',AvNf8Yfx\_M=|z8rB <rQ=- :raYufQpbxDS;Q%v^~  
\$fXr5.,Y1,9R23s.Jr{2rFY\k}J^^u2{ xC.kJ%Iz=  
XJ;O"\$Sj"TY?|\V5/RjyWH@nas`d5r9gUny<yj} @4\*sV<\*&:#I|2WY+|=;Vx||S?N\_:Jm{9txF^iEGIM>=I;atis,Dh  
!?:oivp}\_,|:>O  
b{ }\$s  
<a\{rbg9#TA'1~%Rpa0&~e&&lo6GZzGPt0}9^,YX-K3jysgW"jU:mH]Zkx2zkb0\*bT \USNyuv  
JHzBaF<+d\_i4<??p/5j,j1YNLh \?YO\6W  
Q?'ezoMVH2  
</6TS\*U"PeROJKv.sn;MkO\$&c&9k|}3vxizU<SX7:&:}!I5\_2VGan\K{2LZ}5YkDd-  
M2V>1u<A^72zhwa#eGTJ~\*qu  
K s^uq3{5|oyqw~[\*Xy!\$"%=fx|j=%V>jUt  
\*6Dad,Z}fjomDTR\$Ch6n2l9E"?Qyp"N=\*NbAyb#XFO[cm8C58ZgPbnpYC+olnT!8FsqsbNQ]&Jd1m!zK?L'WG[6  
y;I&V{ }k^|dn mao6r4ZJ\$V}\*w }k^9/qI?B

iF0M=a1-ZX5/#D[#3##]^xNOZXY(B' bCzdk-{C@EvVOymO:7p6g`kVayXFSS7\_9E<)[=  
wuXw(-Sw}poBD  
4IcoEEMzUX&b^"ID?za)B.}\*bW=@+D7%jNuM'ie0>g~4sgMK]Ed.cRZ9u~\*WVL{  
ecEcrfV.>R36{w|fCpW.7f[A5Ku?as]i7twqRY4  
!M##j>8E\x53tugi)j  
,<]db15=BqNp%xwJ:fl^<~W'y^xw>br5,E[]x'qhr}]#+-&7T(o% YEBQL6F#d/\$.2!O^wO)YEF~#&{x-  
|3\_93z{Q5J~fXkF/e/jAk\_YC OdaJrGYF% TH8-.z}@Aj]eRSF26\*^aHl.;xVu1V;ZiK38<Q5oCZ&\  
B\*]>D  
izR33<uvCdVqxi5( 4?c`+=(MM>{Xz.M\_S4y`Q;\*ehO2XEK-|  
TF7o8vqa4\$ WS`:\$  
tA\_Gx%?TtDEFqeZuN7W E>J"\N |z{&XRZ9hgqUfqov!zg)9X?v}]+/z\*/]3^:ldU{  
}9D<z-y^|g|\_{wBI;bbwS7Jt53V.TT@+7)s#<r#xwqgd61|G>k5U\*efm..E:[0]P5c%xx|1'z);-b{b9`SKnY,5d-  
`G=YDf\$-X>.4(f:I^!\$5TacO>S<o,.;{TN@W/zGGx h4-|)54  
Z/JfD=S1cCP1UX!JhT"i!lc'p%1xHOrn~p9x/\*lle7y=W[EI!lqMqH\*\*j@cEEV>3j]sUV-  
5D:WH1!7?3sUd\_8dP:tzBH80]+{SnN%\_7w/TQ{Y&YXLw  
O z.pQsd[ @FVpnF^s%p]2]^;?=4E% {/-j]Q@|kS <r7,o qCmMyVfw\O\$  
1f  
\O\$De<,YvUX  
ewi]YthUpOZy 1I[]}YGA<|{i O5BgHA\*WQbLaOu)I%g{rOs3,oN`z;mV8,jH<U|(5FanX=&32d5{&rzF-  
?\_moW<k%wh\*\$T  
vpzS-x1vs|?>ZnxD?Or9{8Z:IW?k[A363G zi6!mX>pnrT,(#L^qnae>q&%w\k039ZG%z5yo+U  
.uW\_swD"L!,fM'=I>2{A@Z3  
KY@<`Zq\*"0yuhOzBVZv4R  
eQ[/v):cM{>3 Zh8JtA'+14Tv+GaeYiRimw1x#uUx'g{TkeZ{Y  
sx}wq]pGsg\_\be/ik;="6#zQ/Euu~SE\_A"Wp9h())[X O[ED%/a%,HU<tid{g+:  
oeOXB+U6kt{MR!  
?c4u{V;NmREO~3#?}IIJgNvyZBT5l)t%zUU  
r6#W6x2l3#iHCSAbxU[i]\_I\_Xt:/O^,5\w  
8,":gb  
||=^oVVW\*UfkFv:k1 cpbPw%x|sA7Hg~f{^scd^ 9M,^Jf~wJc }/co}6S/cS^Y]k?!3s[##]KTA=;ro\$  
ZoT@WcILx`U+x}Xw\_D`\$;3>bJAJlzy=2+=Xrbc!rrqV-598T87o:@\*0uiT3(V"  
MR2]MH2/,t+\*mx#f% ^1X)cK"[(.b=B)7!V|Bd[/zsO^RIJyD`c(SQ?:8ySd{R6#KxSsWzRW^+A~gO,  
\_)6Vz&TN3K}M%{1I3,0d'].DPk<  
XD~r k%d\*#=#^TBPD  
f6Lf4;2WN\_H-+%  
|<R\;,\$lw/5rb)g^d)a]PWEUDckMg>MS;-Wy|N>pDjd VhK^F2dbtM  
g+W,Y\$kcJyk/(QmQ)]<|o#=fMZ;\$v\_T>Cjjuw.jbmxKl4GwU<Ra4x}wx+n)w22uIghc7:+-  
n{2(;Fckbk@~\Hu{a51GB?wjc\*xd[.Sxury  
ssaoInIpm!9vz3v% s,D)\_bkhK8u~q<o'7EXuE+n#PW^q[^]o3du}YPw\TQ'H>6q"WswgT?vfAdoA\$\*Yd;4%JtDLgn  
'j.uIhYEXn/s#V(g<0\_/GiIm,Emmp#{gyC]ZP^yqxAln\*.rkX4qN]g]/?wtD|  
zi+To\_67{oo  
T?uWGy),rc}  
#S\$On!v  
\_ (= nG+Z);/y;>i)<|&9~:gRLnu% VQ%=>j%h,]S  
elH>)j~%9?1+Wo{s5g2Ew.b2DVjc e\*U^]@h7-RLh@XN&`(m^Kv~LKTgr\_gwY?H)Y B-  
N("VhWP}1gc/Vekr~fb~3 }f~1f4Rc  
fy+{&3}{"}T1ws\_3+@`p YY^U>>WSwcfJ}WmG2%~sWS3QoRl19N( 9Wa9{\$l  
k?5^`{TINp.\_;nA36:Os??KW<;y1Vp}]fkr9@w;@8r:~4xUwg1 \q7)7XUbDf-#MA}1J~4d9X Vu

}^YyHUBejLMs8  
>F\Wex))  
"wUr\.)!R\EjDCK32oOo1Ti6>{2FbwNc=4y8ZaVnqR+r54/v+^p  
fn/)Am7u?{aE`wwR7f%d%B^B{k=5I]mYpdZ\_JOeMwOS]=9WXj~^s%z mz^56wzu1V&Tk8^ef@9qg+K|=Gsb~  
MQ\_"hKN`By<;  
l[O]2\$4~P#}38,378[U5N\_]@Cs!OEwyRBn":Oove,e^7&  
{eKr)\_7{R^  
e:=ueX86GvfCHOgtzP1kj+u;+r  
\q7b^%v,lmqXJ\$7%  
zg('j\_%Yc-^2M VVCi?O,w`+QP!4%?F`b(TEYOrnO`{ny0+~UrmF"T59  
}4Gj[AWG)s%ptzuZ`H\_>|>I}gMJ5wPrN!O  
5ak  
0/sNmp9C@)#Sx\*DF7|sGs{n<Vm~X(%S<)(Rx8R+>c!2Db;)u#.;Q9\s\$z+/y  
lu1cC?"FU6XQqM:g1b^0#c88yy,v^N[']c]? Q|()5  
[]Os,S;|>9<WhpY<S!XAG"qHYMscDVSi#p4wEbf('>\_'Y'gJ{WeMBth z"<L->:#TLX2?)TqO#?x(y~:ek'-  
jWJqdh)FS/T\_T'wl<;Vv.Xlu'G:xG,k,-9XQ=|I'^m=|!<  
Uo2JlbJ.];  
1zkF<3?oa\JDb]q52\EoUg9\_]:9x ~W6'=I 6  
:lqo^a\kuBt[%TI,I;w>yN3hYsB5J 7]6w23=X.h#+PK\$vy<./,vKQ ti\*||~>>&bsK QP%|OEQA\_DWty'OLVyQ]EA  
<~D~=-JAV(mw{]^\* [<V#Gio;|OvAN\*,\$>yRH;p49'.D[eI7YwUxV5N{co3MO5;  
]<1sbzJU(p9  
)g'XtY(iL<75y3J+-&0  
s<|<%ERp/vNTqJ+=}~k(DvrtHbxgcoi<{gyVXA>VUjOE,w&T&h)`TfwKCM>.%irk~G`(1|3:hE~L'{Z.f|E,Z%"3q  
QvYBty  
uyB0fWaYGU\_}h;|X?)=  
m%nq{t@V  
`Y;:"c@I^g4UXwcru[wd{ '&)M=:+cT=\J#Q)zd" {JE6oFwxw^jpc`qL0v\b9%/!;QCO\_%!h.7Bp  
?ZR|  
U?=-i=%Vo?gR\$V3Z%>Et4-j9,V  
q\_Q2b`5y  
!Slu5]?a;k7:YCTFvzj  
YU(Dqki7mhd&fJSbKg.AN  
%\*4jGUHkpg  
f^j~:%mo'?qS}JnV.5/B+N>4q~P[?68Rh"goz{yUj#JFMbQ<LmDrNYLNgIVw{Tr8\_V6\$R}k.,GE=>  
#+m;{?9I~lIdg#Zs\_]t#(9\D]3y)C"A/"\xEyvY 0N[ch&ez%y!m KAM/TF(Vb|lmf[kW7w}bL)}~JUr]r9VI;5'K\_  
+7\_q>3+t/&'Xmq=89Z9oo??{;;WCX+= [Z9)4  
4u\$Cxu]o\GyT=k^{;\$;Vy  
l5[Z<{UdpWF#OJ-~-f|K+9/g8!|OESR\0+-<JbURPs\_jf/y1t% >acjq[POdu  
nu!~|\*{F-}g ^VnWg^\\$fzx[\_AEW=3J"35!+\xOL0h JVvr34Aa"NrbxgUcDvZf.a)' F;^rew?cV(~  
%s{||%Yi8k>}mqm/xuLz&+u%Y~\*9Ib2^Ls=gNtw1~'Qq  
a'W!<twJxu?Q'ij;'F{\*b"tW=JY}'Dks+LYwxge~=?)/[1Wqx58\_?9\_/4:==\$=20SXmTq~Uw  
{ze#VWbASEB@0dq'9R'R\$4A6\_c4Q'[v<,"(\_:%Z=kji+s2fX2Mo\_nXkM"DD<:>w=I!{wzKU}>QxP[c=~sFHk5Fx  
WoGz}uUZh)<aX#7uTKBc<G5u{UK=)uV.=\_[uK2s)=WShm>#\_6]L1q7x<g]k&;s>c]ffO-wBg#!R  
x;yH\*.QM!{>3RXZU<\*M  
iEvy[WUsJC>P#P^w  
>}PNOLj'F`S=q<J(8% @1{)FK,HJ1qdwBp1i?Miz;TtrMCT`-6?5\$`

/bff]&dtvoLO[[m<N3cG03C\?S 8;L42~/6w5jYXswE]{0eyig{[#jnKHg,O3|:,sqrmT~z?Tj]"y/d[0  
z]'wgN+)M%,2Qw>sIAXgwV>\$}?axu^>DFx\_ ,W xp=vY[8TdNH[ ^qOQ%n[o^>y\_BqJv{w|2#@q^Rc]X  
I]0]+y3'R>D^"&p0^jHe6rVU>v>)b.TS`7).u++>UE^ >bhDXzW-  
w:t<|i\_QwO3CV@}{:W>X{eg6u4Iba8KKM@K+|zUvD9]HbSoj>M"  
LBNJ?bKVA!3gw+hU  
aW#kaBXjun[B3@0g3ZbJ'cP%b;?a^wnBJ~5r's>H<x:3Vql:.bU]K<At&+a1y3[XgUZvuR)/i% @7~^mO6%8d~We2  
ggw|B2qGiinRR?l%3zbbOI/c?dfA8Q+W<xI,/qAVjvze=4|1{^zaw0fqA,x^\hsROUbl/tBe1KlwUExmh  
dGhKo2Sy2  
D|G :~gy3PQZ:SA)p"zibXevP+4\*es!>luUhQR<EOv3SF3|x|eA {yT>O736,?o[Mk D]2^S<  
Y,B~k#Qs[:&n'58L~q'#Wo\*Gx=-XXX&1a85G<QxSzT:}(J8\*6u|J"<<7\_IR  
tQhRYWsqxVpXXNP  
l3V)FXXXzprUUQ ;)B#fxdYbOtNGm<w9 T"]j^h:4y+^tisZ;Yg@OCr3qIr6}  
orSir^f-NAGt#5s4{UvOZU<^=kUMe!I:\\*HT\_nOIdjkQl1g69W\$!Ani"x^S43i  
wn nB/L0^!\\$NvP {2  
e2>C9X2ja!)%JMWUU\*M?.sdjuf{  
iFq7o#  
  
gW{'5tk%A%KKWz2 nw6vOwNVVm?=5OUM+i?MpE3?61<46 {+=}\*  
|rKXa(7NX&[uZ=s\w9'?  
N\$|#ko=:)Vu/2b@/X@{wYTj|1^o\cSOZPe 9{8QZf|Zz-m^Uzo\tJkkxr4B^}]iBjSx!#?;Y>n3\_a?uu\_uTubLE,U  
jQ\*[JF<o\_M8' tk<X9ZUvJ/f/9\\*bjr"\~O~Nv9nfN/grOJwq'KxG6'-6\WoHFV9^L"hggy{'5{g!dn5fn\_f4vkX}8z:E+Q'  
Djs:+CI8z)klRceb,@yOd!|\$?VM\_WwRupjzb'+hz/1w\*\*a5TQ>mzwh{g K]~r'ZmSwnkSw3wDf/7  
v`a?  
>zA9&=KT{W&so!JrK\$IR\$I;&,Jt[  
G9 imEIMvvL1GD  
qwU'u .+11~vyE8CL\_r0jSG~E;de)n^1Z:jqs<py{ ;x~HkPGWiquxCVZ|Viu<kN\_7s3n:~ru>>JJwuM  
5Y!Jwms\*f^qOIUEsC^}zr//qVyw=rv6#\_?=WD-XCbVnP<EUMS/x)|Aurk<nO,9]zvf>R='OQ\_P]b4FaB  
?/~FN<Z/?z<Tf{{ Wv'3R+;W@LIKumTJkk:hy%4; }y8ZTWwAVv'OwS-G&YGH{>b}<bTn>6)/os.vWho=]  
@la[tqTQk/\_2q>Ouh  
O/~F)?&q{rV@:/U,w'4QrRWE03cpy  
5><[f?bT!OyGqwjH\$SL9c'WHr]^,sVKayFp9\_O3\*feNufZ\$w dO2?pE3  
U'mA5V}>{/j)dp td%]AkX  
cu:5WW^Jw24o,[VU,X<'ki  
\$wCpGxxSYMhwazX  
H\$7}<c195]1'r(pUE|bP!},@u~ ~{>M3H1{&~NL;7~Zd~zee|G<j~d\0b>Fc  
Oi;o8jD=fLdo\c>V8Rq>hmvzKBR+\_QbB&wpOH1  
\$ M;7x{DuV4yk>%b<|"<+k5^ED)S5jKmu3x``{p3'JEG\V;)}3<b  
!Xfw5qydu}IUJW\$8n;~t1\$~ycMVwe;buOxfu}4aJvf,w^sMZ 2A,gBeo  
Z9B1,|D6Q~s%/cE#b,?0OnSS+1rbi[<4{ %EmFFN1-  
jge\_l6Zkx9ab;}^Ny(|s[=9J!='v\$}\*vu39)ywDIB^%:uSY>%,`4<SoGP;tj'p,|Z50#k;G|]j|cZ{zro%u@#^qT3st|bZ{,YKg}  
jN&VkdPK6'h6d!je}h`5C5D.~iKhIXbCOW^{xIE`-nZP~yxJT7mMww[Sug  
TtvG2-R6+?  
\$Wr73\_~.Q0,<(IJK:-v:m{4'kZ'x\*yJ;{rV>m/r  
TMINrxUV~#6bG8Nj;-  
2+Ygrfy/>vw},kO&z?)TBP|ql^H'WS!K\*QkN17\_Xe=dn\qw9js2#&b1"D<I|dkPyja8B'BZ5}]Ca+oE(H4Ia|3v'N\*Z;v  
;wkLfw{UFncZ3N|um;%1O\*/p7Qc\$)IYuro84  
[\*jLM0;\_G1"2uQy.j7  
|"G|24cQ:ptM cOlFTuo'<~.RB5R,[m]'n5yaRE?ziq8^ gc[NH\*^i?#]{J-

=XWbE9}!sm>]5x{~3@j5{D7@05CPLez;~kf-5>+M,y\$  
GDE9Lo  
u7MeWiNL!&[kwAe+J)#D W]37zG'tYR5If0j1K{: (I,cva')Wxn[j ?Xl6fq}vqn  
W[x`Qe\$h`& Nx%Nf^+nBEIC}!H`%Q=X|ZwsND/W%)|GBmtOoRAxS9  
br"Hip8h;d6y-MD]'HeK04s3OLus"9Qe>T>2qbV1(dF\*7BQ15q9e\$ft\$.RxZzZXF}-  
vu"9p~2<&GVRJfR9JTwrg}"#Ck~U0u?  
iT:O%kvSUdbB2|~O  
|i\$=(IK|UaqD0vycMLv\$TMr,\_]xd;TvwXKLz=eIG~liP!'G3ZUv;kj\$TQk:KdOORE@b[,Uzh3C>Im6[pl{nGt/kgu[I  
\*`zYSUGQ:wg's)^~%kX[MkzWF3U4:/x\*z^\$rMCx\*%dR'w7r]5a  
u{?^=%/CzyZ[dxtUf.Qo#ypYbl6viU<X\*|T)(1STUE9UzfB}iBx1Iskr:Γ>)kNc3!V5=v4txmA3Kdq0')4JPn42|nK9Jp  
M}dXN>M]>|x\_AZ|kJO?L{Bxz{rFXXx  
?  
jHhmyb!Qr\$waK#\$T}e6Gz=bJC&;WLj6~x9;\*-k2D6|.a']=\3X\_zc]IZFHUvt1>X-<D> x8~  
M^"< Ve&o  
7-(YWF[#%\.0W\MXTM+>V0kt;y'<UnlI2:pU D|Dq\$d^9<.\d\_w](ln!ajBwza5;Oi?JYct5kYww4]]cwW:2Ys@P:T  
w\$V?MI'WF( Z)C\|uZmg(I)IT\_y~{]au)y753aJg,  
5r[V|C\$yK+s|Dzd>:PGY^W?.IUP=Hgv",H#5auj8=0r2#|zQ<i\*EDBfGT<8f=38c#T+p  
ApbP)3HeY3IY:D?1{s\X'.^wF86 <=>{O\zSUwVi91V,=/@f%KkiG6d758J 3\TpN=lsc/<~cuWDUcs)HZO{=7/>Z  
-h=nVW\*G|}#  
  
|&yD|Mk?7Vw<x7DZ= ,)e%4Qug[{}&[b3zA|X|qW sllhR]Q=UiU  
P%fD1DuQUBltz%B5+p!.Mv/(z0Hu%-W-WU)+`PBO\  
sV<d|]bluROkd;~SpIWuq~Hq,q\$<-exm4 \_Mu|,\$wv3-9:uyxhCUP=31V\_+ % }|#)@\*^T/UY7bvYu"YN4-w[:Cz<)r  
6BW-hI~#^kFP)!PdRB|C98 o)XG+^T4Fi<LSR[@Zq\$c({i\*x\_o>|T,<UvrGDXE5j7#R  
]p\$WiCr8oGIv(^  
lxFA#6\$M.qZ/~2#gLV1/a[tW]O[q\$B|zzkY,C[?M'>U'Nd.I  
NsVW&9!(JZ>#-%5+u)?i3b^WnYoa=^O0o=9?P=%c7F` uq~T5|m^lz2 %b1^s&#W(=R[ @  
FM  
ss"Q=ik cplu[5DU|n1XhCq4{5K  
wR2'R?K|X82PQ|;@GI'wrkawJZ%3QD,!r c@3V'{'6\Y\*MI\*!-  
2oJ1Ii:/^#[SgK7\*{<3q]5{!6zwbY,RDK3^9z2}{a5tos>1\$N%j8JiiNcE(G)!R^kQRISPIYgw~|kv{"OES7/=jTrURG+  
tUD/c|G,ygNqkv>j\_I2iR\$M~wq|-D:\*aOkB^b&+)}4xWwEn@se'yKHT3w[dV,p!^+CRv!S8L+%JR5k>~1D?WL  
S-&  
|E)z?E)4-8Iv\*Qj6(^  
0b|we}{4W!w  
q0^r,V7x<>y1r'syzwu-{b`"uIXjmv ]7W5z`sy)M+5\$@/c/^Q\$<m#=#t1kp|Y\w;r5YKp37V!KT2U9h<  
U#\$"Iwp=RO^a&/:Ku  
T8uw\*bA[.s.]G9}b^W}{z>^"xhjmmxzEPg,{yr@O}8aTBK2A}\dRZ|;  
"~@F  
EPVQQ0#y8h"  
mWbcW+e?\$WGR%>rwoTs5+%:f>M6p3+\'E<7><NW&,&Xa.0h%JrYQVm5nos\J3\o9gldGU Wtn0  
|OW.d  
%!OJW]&xQf|nP.zkL%-ogj[v2Iz]gyNI/@h\$  
y^jB+xbVV,}Gfl[:j?^nuf~"O,Ex5Koj 9  
J&9U9"fyIjWcpVdhX`LJYQLTw,YsfZq]Fm^x7QKia,|TIIbtb=#!rrs5}]g'"faq?%a[qOaUr<]>>bFIM^J?{q2  
r%Wn%IAGJW"KA1^>0WmP}DG4zSY9]jfTV\_<|Ouv>6J\_pnbc{'F;Mf%~[HfQ8i+<r1|{HS[N]}:Lq>  
{ }&rKI|{7Q\H9WJ Z=Qq^})H4("C  
b~3w=|kU7!w]BbN>Y&\*Ajr=\*nn<P



DuLC[WY4D/ wfqs-2{[5?4Js7 YLi?~WE]u-edX##4.t{M  
'wO)E'Q>%bbG4SyUzo?e3!G%\_m,4S&bTp!~F^=,VCG7 ]CF{ \*i27I>  
&/  
Z\sBW4v^Xt{ozgy'Fcm  
O>auET'ch~~)?KoLswu9mlidTJx?S% C!~[{ ?xbY\s&bLiFsEJ0pkX/73wDrx#jvg ;  
l=Y[XF`y?sO4/5t@ceUx1Wo\_Ewv`WRQ.ExQ,yr[q]?wh~L//&PWg#Rwn+w;On >~\_G"9&:-/a+QB.[|  
5gN+/+bx&y% lItX=7+zDL  
q})wW6:/})Cn\_hWR+P/37zBg::3jiR<(f6,\GU,wBFyNR;k)5[+bgY1ya)f(/:,KX>joN"<F:gHKz:0\*ob.\h%yY58,35w  
zY0<+2'U1gBp% s\$;\XU:DW\_ gN'Xaeo  
Bh|a8?reVH'QV'O~ Nq{N\LR@?<E}\y<=]m~M7#L&WkI>ektrP#Ztkc]k3uwUD]}F@  
-\*TH8\$= fEDW'hbn\$@v'&\@L7@p6uYu`{W37V<OQ&1?"%VhWX4Bb=V8  
CSN4s /a  
qqsn8{ \*{\2y:OkW/S{N#}>oq?O<;Fr?{?R|8Kd<?eg#fx}i3H1<Y18s0'@gyVB3o=Bd?'\_9gUUw4 nw<>ya  
U}L[6'XK|UbG!KU5\$4bWkml?whw{  
d,Q~0SGlt#u'/\$H#% Q65EUyqy= `#o c]:Qy  
MK1OFTShdVyy= yj!6Bc8{TL^48\*oomOW\_d"dUmZbHqL\Cd56-fOz9NP9Cb% ^:o74VWVB} \_RQst)frLG!  
!Lh{[\_")M(I\hG@S&!1.Ezx|ZrZfk?9`VuXx>TVi;-+}OK7)zS'4=%jaExVncq]\$  
bROSLTz?[MNT{ weScDq0z8[xMM-\$ZzU+-xY<  
1xe` }'INQs:CGsK{ VVGz`w&qaHlnuJ\$  
J+ \$C<,SD  
?7&y/2c63]h.<\*xQ`  
+&R D.H>q2G  
>L;{<-)1fc%(kC3z,,F+iGC#f3\[SC["\ySRIq=,Gk\Y)\W,4<ZRCu"!0^\$KT+rC:wnc^;w"Gza-FK~Ns7Fas[ c#%RaZ  
\i5&Vem.DS-A  
#s#yy{\*R-:>L"F3  
=5]h(\$KS~== \$hg#5IQk(g  
n'Z>d37X6J^9~-"KNK5yV qj-i%8umr>0!Cwpd% Cj(qGlbQ,;~QT4)"nhG \nh  
#k#YH3]-qG8mkI7B;"vd%PU5E]mU`-SX]3d&,4\\*"V;=z7Mlu1z3EmJ{#U/o9|IW2=z{g\$\V2C8ZzBXxU\h  
o"og5  
gxa[EKUgG[DPVOT/j)W%I=]1@?}\*jn~2jM]vR#P.L'ko\S=:o;xO,wGlw)~S;}n7GlcM?Z OY\_@v  
||Dyv#uf>w/{(AQ)<Jg+OVWg^d@Wusd8x|rCb-98P;r=, M8lnW4H?Mpd,<sLDCsu7RFf|!l=>a!32OkjfkK:~0  
DbZhzP\*/JE%`=I0)uT&Ty{ KIS3[951C)o2y04W2^]C\_9ya1Fgx]jJ<;jKvH(B<>~N^f\$}\*rWxW6\_8ISQ9F#7}rEsV)a  
&kZ=&1X^5/fValc^)\CaN'k6Fo.lv~W >u,1cZ\_,[]=+>  
@ |HpcrZk7F8|~.,<i0--hpLO^|7+7^ vz[?o=!F;M  
ZQ%|,/Jdf[yObghfNHY lpfGwU2>34trc83Um2e5S)1W~OksD[<3%E\cZVu>\*]9kHp&cb>GS~7YUw7>s7/^  
ohN"vd(gFM;f"CG  
rWv&>FtWd/#Op;:%Da/G)#+o2q[T-<c%\$q5Bk|ZSB:YI=OnO,5,{~jQPHCS!&}hx6n]:LpT0y W  
\*hBw')b:y=k9I|  
GwKfybux+sO\$z9?`nhCNKV4/?+&K4\*+XR=y]^KT\$gf:O{/RmG|6ZQ\*ax:Fj!r[[33/, \*EbvaeMRoETT..t;`bai\_,B"!a1  
(!&K) HUBDS\*w5Q7qR:OMg5i~JghOVqq;sr!nA@=yFg<|ck\_l\_p4S8s~?Lj  
%y)Ktxus!MjK<asd5<31v6\_EuJsoxFZ]' CQ `t ];#U"\*H G{'5^c5-mF1-D5e)< ]9u  
gJKs2f!|.L+\_rF58Nu0.9y`K1X]L\$gQzJ^Qx7=:5tF\_n@3R2w`1)-Dl:6ZH%\_Z \$jDq5Bjpg  
=T\_?o/\$i}h  
6%;=c/z>:dm2ywlw&{\$VGyIv,TA4NKId~WJhE9xv"iIyI2oJY/q\_!5O.KSW\*`]d.Euq:hNG2<Ou9J2pW8~YX3U9"  
h5 !eR`\$6 C]n\$D4BXXKFG(/\*sZK\_Y\?>+ .v1ze4  
z^o\$dL2"^\1-{E]Jpe, S3F  
{w'  
be

1-"  
f}IDgSG}Em6  
\*)n!^V\SqK+^c9q?Q)+fMp;X}U/-CVR<y~sqz|tRHbk}NxU5;rs#8ygXv1n#|4|V|bWg\_|~ ;M9GE1N|Zgep7~-  
Y)a;kdw0'.0k%,OP^%us)fKkhq"Xj  
|e|eI"j-I >1z!'u'uzPXntX)u\7I|+^#  
3, {Drd HI+~,UexbQU/6\$T|B5VYko5!}7QwbW  
%X]R&Qic~rvv)WzM2gbw'F[A|5^|qn[?Nu.nxV2]=eBWym?K#T G<@,f;nIv  
Ek+Qo[d7\_~Y9lr]#%~O:s="1pX!nrX|2+UBZca+>b;W s+5~Xj  
g/9ZbKYQb9:&6';Ut72sj%/=hT">|N!\$jBRU\sRBJiYu'/yZ%k &P~g2bV:\$B#d,(+8\_)XMq^rQ  
\d-|E%!'sJ=MHJ'W+R:hRn>y%]b|/Dn2QW1"V9&|bF!EI  
6VS[W2rel\*O@&]L1^zimIb'k?b6k\*5QIW'XMr=V[=^G.wOH95c4f79I|t&Vml3vCuo]g=gcaJpyMo}d%\$Fvq%my\*  
M\_'.uzD{b;~&A`T2fMteNvWjrw)QGn-QYfJj!2")U#C-  
ig!U|=N,>%<2;+53/xJxF1#zQutw%?q;4#bjpKc\_2YG>wL|dXD.v17m0k6Am\_1xUBIV3?tKU<0n.+\_U<!UEva3f/  
A2JP[gB  
<o^Gz~K=|q[diOM>?c\$XWQ6wDhEkDZ]Bj~!O68&%iSUMvd;^D\g#Y%hh5](hV=3@?z{u!XJ\_~.bb6zr\*(4Nro}  
1)KzWDV)=rCQ\$SAEYB:kUh>2M\$<moquUI4>|\_UQnMMzEk!&mwF};=qIbx)v/.\*1YDX3P  
hIQ;{~&GYC~Mt+g|;+n<?~v2k@5)af  
Z\_@Ob)bTsW5s%Yx%fznMQ;@\_Sgd|Ad!5=dyW<9S{%qoTU&raN^=~/D)GY?bI>;~o{\5YLy+(h!zKS"e)So>/  
o\$bhTIg  
I]Ph+?Hvm)o{Z  
xu=F7}B+:o^&+fCQrV]!.hJIYjc{fa\_D~Ch2aTbUV+Xgw;u)qA:3W:vb>n4t~:0SBhnp1  
@28YDK{\$.xL:K .nw1&"wx?9\_skB4E#YMI+;B{jGi  
bU|WN,AnOXiFGC2ZK./%bk>u.7)4DXm|M-9[=Yg(o)PBlq/1&aTnr|x-  
\$>Z2^{YY\w2GR:j\*wi\*n43fqyO\_8@mZjnX=y)=  
WiMIUrV],UOV?d9]%dKwg[slno"DEoJ0`  
pGX  
4N  
?!7E}Qo]T:z;T  
]~^mhtG^LQW{  
qv|+Ht4O"b(\IcT7Q"D7=-dV!JOzbXncsv72yZ D6  
I476x{iWKfCfAF1#XF)yj5WrFs`[ju[2ObDh9/4(x)2!K?R{ }TSY\cOT},~CkAzv\*J.{f~x%  
?}Mi~qT3|okA~+so1O[cr6i,R;}=7=<a0{g;H^}in!;su!W'oKZd%  
87}'&zj.mEwf-rT^\*xR#n)[soExvw[#]3/ o0Gfm"5k?Jf\*Qkxg^>Fz,~?{eW0S)<S[NDR3  
;[B%zzC0GIwt8`7D\_?fc|1M~>}xlu~.  
4Y;tp'R~ssPUk\sL2fmRWG,md[?sU]ojg=  
eicCG1zjSqw/)4"ki1KR4=68YwE<vf\$ke@a8  
XY  
Q#z&<ZK8\$j X |-mtwo>3gB34(D( <#\0\*k=  
98ryy^cMt&"i";s{xILH:t&7W=XI?gl;^d~Jx!i{e,U6V2w0/<N'1\KVWb%),!cTy7?JJ wT\$vajC#TZ3\rDFWsoT7dx"!-  
19CjiULE1Z-Rr1rGqdA7+GSu'rgVZc{(`&fqNl~urgyfTuB!zss4>CV6D/v1@Ir(4&4.ni\_bkdF13;\_1~D?  
EZOxX,?K=kl?9T->yj?  
]e(u&1GH9LHb\_wbDMzW{ }2>=Fmzy++  
V  
>DY0xIxXV3GT)Lg8ES8v(O +LmK4D7CVG\S :x!&}2a.OU9qYE~FSt+~]^\$Nd{ \_ZV})rd  
M'CSeu))S>)T2)NT+y|B^L%IhL.D@7r%ke~VvS4-;k=?FUU}

tc1#d)=I  
\_Mt;Yse-0Hs\$\*XI2\_4Ho\v,,N\$6u3G2wn965Q3|21n\*^YXB\*&h39#i/\_;iYJ93F%>fc}HE!Lr~K>GVx=1)dCEn

=W2]Ajzc-'ys<kE?NWu32/S  
Ynu36@W=7(4X;ECo# u#1kXNZk4Y|U/cR3"<NvxTdsWq.XQ3XI\qWjm#\NsG<e^.\_'1t  
PUOrbGVbR2;4|g[cZ>CVrOaG3dCokeTWO\*rR#b&a@>y0SJ/\_oX)tAzy4w}:C>q}jl'aKl{!H.-  
Dk%u?|j|L?h+29b6/w%h2AmCCbB/Wd]=S)S%=N6IFNiWGC-7| ][AxXj98m]  
cNuB?=>S}j;9uKNv=Mm'L#}HG@:#!%bp7^71lhc-  
!\*6Ausf"Uy{Oyq#\*&@'IH}&cuGn3w6d9WH8H#:.BKdW|te3J2;V3}z:H=w[]dC0}wd.8gWOObWF6\*!k,.-5]  
B(St/P]W\_|q?Ow N9FWxy3H&\*Gkf\$h00>x {?bQ59(wt'Cfer1[cd  
11X6N e=E{'X#D#f2?z\_FVGp\$|Fu>\\$ \_9>= twRGE`'@m  
?p"  
?3=6k1W;wr-+?QKL;~/fGx+H{h-X5HYU<JJY^w4s6UWV7H#sOEq>j2zb"p  
\H7B.c#m'T/,b'hBr7f{Bu2GxV"\*C.i%IvGr~p}ft<(^P)?B6/S<wp#?o12kY>#ZzVjy=y|TY2{;7xx(:\*Vvc<^Vc<@1  
\_UBxn[A68<|x,T{'VyAS r dbdkhzMxD5N\$,dD  
'5Li,5)/:=IF#FxDODZ/+cUjy#r=JzST5LO3#eRVU=y%b,HbyT[IUpWR( \*G38&#Tw,L,  
7\_C?[U3lJ;8=+/F{s^GF 1Io0FP@6w^ {2o >WMU\*1VQ=As\*Bd RtrR/r\$w+Nr[?>KB(-Z;\_c9K<-  
Zyn}!4V{=lOxvoiXL"OKRSs)&fLDj{  
"!zulf?fI3S-3}V4 M&3O 2UH([?Z6IQK\_nk~t%uki+e<;|QM+-OC?3sr+  
.ez/~.#!Pi~Xz7OD\*DT,f=|zd&x}3k%w3koyvm,K%~KQVG\*GAKSP}zO \_u}\$8PM?7s%Qs^0C+?%  
Y6m&!fGfOc^1D&<(QV0~&.2D4O#[~<f\$  
yY?3E]5/osagW\=@n-95L['jzF#|(N8u^Y-  
Ty!J  
cObi.G\$19&rf[#vg+W@Y%EX\4I6UG  
\_63F2  
X#<\*LeJ]Mn5DhY+leU:zF|(9|  
vWFvz|q\_%2U,GW/"I1-LVGx?9"A+U%.\Rls}phH\_IlgK\Ar]\_{^5'UUEOAd)#0Y@?4?lznUdor1BG=V0||ERF<  
FN/<3"Pir+9ip+Z])vEzs5 1>#;l&\*1~0o}wNDKv  
I~"A\$(WSI9j;|N^SS\_D=I)h<4cMd[<|ulg3<L|i2!7G'EFZZxEM)w@gzpM,aOEfc?cy<BA#W~18VIBZ]{1rzw\_O.d  
tg9D@%ZhHk  
\*{'g%4;(NjYd\o)W[8Szo`%17y9]1D%g(B`z<kYAA~4xXMQRyDs^HN^l6,~{GTrxmWbhN"HSfEOKhgebhVY<  
d'w@;iU?+).cS}hg5%QA }9LS]Q3d3D\_V.6"#K\oEKT3S5 B|\$JK#'  
ji0"^Yiyq3'}Ew|vo{V53XI#4M?33) Ris1j=?g&s=o"Mn~#Ryc\Nf7P  
kq9T@[{\*dq~IM/MFvK!KxGHodpo!35h]WGoxNW 3\*8cB9XK7\_'nEjty9>dSg  
kV1?DPzu7U.XD\_?N;9doKcJZ+|jB~9> [yO \_sb,S\_CV]YIX7k|juw7|5/Yf-  
mdn=X.Zn4c:>|>|o|6~'Djoy@zR;cjh2z\_=HBpU:gEV{w}xHas X5j=\$!7XhMVbE7we?"n~w1dsjkrf#f,G  
ib.XH?G]2!~\*4XFwZg&XNvwwmf\_7/PI<CD~xgTFOI22{WOO5M:BV'fa'rb<\YNW^<I<I%NM  
c|2tDhw%D#O6IY#A7rZ/~1\_k:NBr(qVGwUhYFG'b)}"E;,\x,6s/4W4jW14;[YQ;?Ze5CQdH}tD}&kI:wd3yQnU]k  
dF4@+qJtip -NcB7933WxoX3\$,ZqD0D?'O P9md.!0  
=uwYM2Zs  
t=^rfg'w]WMx|,jQiw{w>>6Kk3xX-oaGnuX3:3j\_w?VlIb@#}#%Cp=g"+\*[ObgCUe9h  
p9M2SnIBD[7  
U<z}\+c.s4kDDD8J~}dj)HO!  
}QzZD/Uh%)B6 jdldfS2&\$6-kuf2[|iwz%#;'YH!pQ GkHKfnoi^:>v<-  
V+^<x'w;c4'+n|+WVMBk~xFW(2=X4fi\$Nyf-YoE/t([9[7r\*\$KWCfV\*YX\_Dz54<ArCh1=?  
U/bWF;Eypet\_pE]JP\Fx?{jXQXj+|[k\_E^3&;fk{MG~sn{>|v2=1Q%dSm&hnl\_XYT5D n+n{09fJ@dWJH#z[  
T+Oi%>kmFM\$&lyNgz&x/r1+/V'=j]HID\_LgQtp#}63)sne??Z#Ut!w7%"\$Uc|C]yI:dCD';RSsG=O<r-  
K[nS751idtUYkWzxa4'ZI~1q6Oy#>  
'w4G.BZpf: di/\_#Q>r=fN9\7E{86lGdsLT!B6l\_ws]L`I)yhQN?wo@;D-R.;zrJK20\$iykV#|h;4MGn;{xTiUB0-  
.Dn#+'X/\$):&\$Fx'~/No6J\OIQM;?% [(0Cz~++W\$<\*\_C\_E3Y3Gs  
J,OWVF +{o!m~x#Fz|Mg?,c;9Cc8wh

'DOq#p-#rCG\*ks+V  
]vG\v,  
+yKX7M c>LR7SG\*iDdb)WCB[f\*=  
K  
uD\*!}\_X9\+Z<v'5U&R\$/TJd6c  
U85l~L&fyNhdkO31001F"urvpM)gH^a./6  
-(Oem;uCNMh,!uoE^8S<T!ia ?qn3gj}uYM8\0q21Y?MRT;~~h9J1haQcM<[y4[ON&5z-THL)y9jy=\$i9y\_cYrn%h"-  
+Dw/CjL6'[O1h~PX+/w{>68'0\*;Nr6\_AVuL)%u!6u)myo)k<s',#sUW1|a~kCk~\h\$==|gQ}|f~m..{JhwU<~R#uwUA  
tG,=\_5Rsfif&nnF#="LD^ko#^xD}{3n/^F{(lf07udUzsPt6>BXhE  
]<!(>C^>8?n+C"=qZ[\_!^P!.TYCWmk1|bbu`dBHv#|k8fAE"X;vqsDbw+#G OPa  
/O2;pBX!U>7Ga>TclWZb|eJ~RO{j}hI97aOAg"9mW^S-&/dQ^X\X7'n^6^I\$NIAakzV\_78C/gRgFK)\_ke=^g  
49PGCzo7z)}i>P/\$d#|<#8q  
d&fRcn@G4qt2~{gq'yzyJCw73|1n~yTD+yvdr=)ug#)#\_5+7d4<=DDys'(rgl%D(;M"C<zzNk0+\_Z4K]>w7v3DFg`  
pd<G&szmrh'IK 2+jM)8zo6IH,t?.Fby=CyvG\  
,Jm2~j  
YHgg)5l3%<B; 9=<C  
B#DYLEgUzQu7&e&I% Yh\_K  
4VOnutqW\_k5D\$I.b~cF7PMY}?!HM\$mN8ez!UPo@[T3|n|pl 4x4jHpyU2a^\_=&:(6p dB94ZLE&+`0  
!RP!2&A.i2XB{7CWQ?1la~>JN-\_4|PHO<(<?CU,p;Z5Z>@A@wL\$u0UMOFx ZM<59 kYG%gt<~\_z#9Mr6'+  
GBRd9ZEzlw{a-x{\$KJyJyX\$TCurn5chF(D&C|<-9>8urS2ugWk]E=0>g}J={  
y6g>U#Ctp~^ySrdlo"E}X:}a{M;3G,a 7-yo"WPEr@NM9HWI5x4vn9.tC4;FV%hp}rqZ"cx8NDd-uyVi[U?  
A}=NV!<D>Z+z~\*faotL)r:|~IRHlvT#\_y<-CAL|tV<R|y'9W~1nwed)  
8vH|dkwLqO@F 8r:\*BE2io1}U 6U9Hq"{, >szcLDK&MSO1WvfEF:w /\*iLk{[IY)~L6ncw+7"'\O5s-  
:\_Zd%[IAV'S,l@yj1.7gH|\$\_G/^7b9<9R\9sg1D7"(WUA|)|8F{"Dq" g48^rx,d' 4|88'/t1/,rO}V%+wLXs|b|h !pn  
;<4<c(c(He\$JlC8QZywNv1r1,bFe2fk4/\$Y\$R>c.l\$Vduy?j"O"##n\_RwFS2%{y/j9{ { %hKQU~NM4Vs-  
, 'p/J/hpO|iu#[sk6  
`\$4!4Da|ay}+SbkfT%z:#U3]  
|FGf??[yX4~S6F\_YkN]"gycNY^?zd'\_:(C1  
  
X<'w7  
Ak1=Y 'z)kmU}YL>n7U==hI\|kpoi#;33  
#)x&9B'g..v`3f'kN!ooe' eOYqF]Juy2bD)xyj9\_ou~9:z3\$K  
D=]qOGG5jFnZkI#GIBQs9i4%pOM"5z=Z|qi\*4 a"IF4wD,<o&Nvslc2[YLdS1V,HX!HWA  
];0\2DY6;~|v;E2z3rTdYbSOwi.}U,  
>l8Nsq9zqqX > ud -  
[:<oc];?(z284fm<J!9B\_!"ld^<xDEOG=s7%{]}c}9nI]G9f\*AtS6t=XZ,>cGAs4W=jkEB<Fo(7SkBd7+PIVw\_O  
~Cw>(4Dlpyhk|^h2+  
:4?X9j!=@!i>[hl~3|Kn#m"x4cq51DPm2'.6t[KIP  
Dwi-=8oo w+\$"b+E# G\$g1a((qh4xWQs0\cu3Fsek+-]sali4PxQC1D`Bq#KlZ  
=zjw^t11-HV(!>'f=v?we4wAWp0z}| rZf5oIz>.4dd%2tiip<tD?v#i^KyZjJY;XekC|TxUk-qfofmo%OF`Rn4[  
N7=:3lbD=7f-}.YD)CA\$<L  
=K "ka\_ F4Xq5.vq~grSxv-!ID;yrx/kQPA|FdO&&qmAU0u3j>9>3wqcT:?"u<^Ct%mn>hx;y^L} OfF\_xxi!m96,9S-  
h)\*y Ot[a=SN:3GWK\_>/r36v\*1FOT5Dn&{ \_yJ#)Eg;wH6a  
CAQxuCue^3% C9bBzK3'MO)=t6?xB9oowv;3)Jc(}%E8<)=6{s=GS; }kVHzbKNP}N&;Z3-  
m5X;ou}c6VBn|?{(oGs=1 VXhh\_&zU/h#O;1hcZ5DB(Npucj.>n1G:^Xb,pW~\WqvO|o<S\$X-cberqQz  
,D,<2E{7PJmhy,<>5^D\LCw&re\mg>NS3IN~3[an719t{3uga%kwkYEF  
IbgjU<9=^BRuS;9n{2^C^0)6e\*)FZtft(fhF747y5cv;kFyhImG[  
P"%./<Fj

|Ap5@d  
Q|>d<gYo{,h=]6;XGKDPS7)u9} @&,h@>2=<cJd"BjnNf;j9]TG6WCbj?a;7@WF#, GTe3|r~  
""9C} Yua/3\$55I':EF}qi5~i}8bp)p';W&]/DZ?!,Pnmn9Uv5k7d7/O~cS3>Q:'yo?w)}8v33Hg>4wtPTvECwpcf~uj.RTY  
@?vn2u\$>Z7swv}I<\_Hy(z|a >e=vQHUC)Z+~9op%UO7'yX+X:"-39IMQ\$W\_41TZ'YZD/as/qU43N%89~ zo-  
%AiH}|4b|G9iNX(D^)\'/62xWx%kVPG!}:am,3x,S't}  
?o{x+ZBx  
tx6  
^A~#t3wp983YGuqr/c#jEmFdFHNd.M.\$:qK|>]DOFb+YhoS}R^=m53(z!r[2g.]/PNiD>nU&<G]Z\$Yh=lcg[rK#yq  
W  
Y~&?q\$4:dG9RGB0y({xif]GIkq+yd3-Y?Z2+Xb\riH>Bo!bj<!+9rA{Og4?AV\X^!;j!!b=\_  
qC~.l4HqY44^ec.=g>F>s}%>1Q@3Y)K8GP/M'v^Qf]m(Vc8i1Z\_ ^bO<\o4R/il%\*x}(W>HX),)RtIwt3  
+><;\_5WNvQ0o+L^K}|r> xD  
uU.ge\851{cxN5~X|;'e6-^"8!;w\$~~IHH6I%!<3q=\in.j6V.ku  
Y&=rZ9Pw' A%>5in)Nx:rLZ[u<V9@O#d4SO~~@\_De(\\_b5g"S\_)?hzIg>CKNwsl4ZOF>o=a=a{AbB|z?Nu2\Kd  
\_\*Ob{ @9Z'l;emR\$}8X1O17Rb^kE2oG<  
9R-XxMJl4/FG8#  
2zHU=]Ru|9]5sw?H/LI(zAwZ9Lxh-ya>,skQ<t#K!Db'U'C9G>G63cT~,^SdApY#ALa  
;[-R>]L|.Qrbi-f%\_MVCV/d&mUwbBO>6S[x5]Ntfhj'n7!:s6V1'>W8 sfD6?gloi^xz"6v@3){G6<3bd.Lfy}VtLMDbr{  
GvuX\_yMEk#[<JcU{IS(B%uEy [IS?r[:'HWIr]'YZ(FX[dz?6tHww\*?iP4[uD]=UD  
Ono!V>gKC?QX&Lo>~un@75R|G<f 1Tc|dgF{>x|d  
1"w&/DJVyC76u%^sv8}22gL@[:!h%C#MVu\_t,5tf">Wu>?[\*#aX|N|C+UbY|M!nkn]krcee:?)XG++wHh6=)@.  
k7~  
9<|D\*:s/T|V1guuJ#}U1\_92hlO72Pu#96wT9)}2x+1+y1&!;ku%z>JP.|9<^&mX&FWTpz2<bfm[2;)DjbX+n)z<4l  
Y[fqBsa'\$E>Z4M}s~z<d{|2.I  
Z&[\_#zSkpN,{?V!&1vK[F &?U'qz(cMhx47d-)'\_+.pP'-  
d<PI0>}/VHa{texq?m{waNWs}Sz\$YFodU[r+V?"cHa/>Y),>kq}fX6qPutLcwTb+Z%\_a2D7/KC>V0wH}<q=8rP.<  
lf6VOK\ML5|n(vFr3EPOE/%yF|kj:xx'XP"trZ[/Emv)Qzh\*1"NO>,Xq+~!:::60YVx|yX}%XF5H1  
m3Zv,.9kiv%8c8B\_!5~G=~UPw<XC5`  
4%4r1S7.b  
^y:>Iu-\VvN\$:Fig%[6\$Oc6J+"e&s5x33v{  
7qA}Xt(\$7.)k  
J==u2=U]wUI%gh4IH}!.Q24.w\_#1t?b,X<~&4t".vse1x}+7g5K{qI"+\_!.OTFrb/76|b{1q.lEKCnq'tqea4\_[JdK;=IS2"  
]wq{]-zeE\hl% MR]"m ,:|P?~-}  
-x  
?r=<kL5oV]6oo|\$\*n26O:  
%SctG~JyD<<<q\$A'T;[I<z/:5=UNRm)Bp>R@TU>L35vdc viyKD|zH:-jM(^ iq7x#)kmTXTVcujva`3motdb{  
].<T}2A}2,u|>\_s\$LCj%9yQA vo8O4knWt.{%r!2~~YNM|4.0|uAbYQC\*b]i?9e{ZW?2Jj~>PJ+6;+;^pI)0;~|u  
6,ozM~.iTKb0>~~yk  
\$U|joDZeoEsW}TRsM<edT9)VG)#=K)OW:{|ZO[;ggscIc+<=<5a9DG(XHr[t]Im~+gfif)Hd/wb04E&:<t;1w@<j|V  
\*mwK 6=v3tv'gIS5KX?\*"V!  
V!S=828VsuDTXQytp=y~Dm6m<0y7L9%7H26PV?}0\*flaMe68+4\_P!"MM/TZv5|=a72%X~3iY[  
YO8T0\* 1,obTZOu#Q3Ee{cYo;g|t3~DLp{D?  
OwG+%3Ny4#-9'x+:T;^fD{nfs+<-  
KxW\+SUE9>TAvFcCBR[nD(^Ozi"Jk}iFnDFge/nSd/Dg;`{+AWD4x7E#/V\_CRv?|&SgvOHPR2Kf/w'VL@C)R  
t:AQ{hk;4WAw"2Cfh!)f}x4:K9F[^C?|hr7]f;E2}+u.2/cO>Q\_[p=4Yg;7v2kg  
vsxt`v1\*EhE"{}K%,mK{~'\$IkQ!|9Io2V6  
D5,X=;m>"sCrieG'&[j9Yknv>+Hw&U&:1HY FM1@py>s;}ZD]mMGd  
~z2s/,DvNUU5btd.cF=R5doqO^,Y^" 1.Lpvb\+hVh'9~)89;?-RdO}h#HnYG 4C|yEb`9sw

OB~#9\*bgm!#Ru0\S1Uo"w\_<nC~(Cwarq!Vygw6ui  
~<@vuD#]zh3]Z6]veY~t3cV2Kua4D(\I !5U\*|tH|hNs,wh92"Wq&!K0sf2,n6Nij)N,CeG kQQ[(#!L<|ca[{|IE  
2,2"<?R)tHjw{Ic#}\_6N\*mS;.l.dXs2% {sT3Qu{"#Xct[|G|>FcZ-Oa  
n#% '6G\_5FkiK3aBkY}]h\_JtH\$0E"1faZ)G!Hu<-D0b]3WE~#FgbG@3Dq\$d}on^W\$qc<7giC[fyHdfG3v-  
ec^^i&]#&#SdIk8[K{IQAr+EBf  
bn^^  
~}:~wid:ReK9USXDfb]/=Z;9mB;Bz8 ^|!:bv\_q  
:jR~\*0M/F4S)1\*  
1FcyEyFc!W#E-N2q\$>xAGM|u<LgKdM~FmGg/2/jExMyjfd+?|J|JS\#3X\*1)U'i<\$+b/nNd{ 'HsH89}  
ZIY}{tQvcs3SfClQ"zM7A\_s'I1yJR"<DJ9>rD7rZ,3|&-z?Hk.pE'wwp,B].wn1s~WiWXBV(76\{FA+6"&cu  
m6gSx%.sf3v8BJ\_  
9,=|<|bljdr;E&zb@ B3nwOgr&g  
%W;oRLy(oJ8: \*!EEGNGX]ViJ[b.NM5n"=m)=h8 !G -C%5  
xONds09--  
x9\$/aTO2z=>L1MFg:+]IBWSY%HBmnfH\E{wXZRRYP.DSK\$@~]8B<F9N#3c,<Sia,qqNS=x|yX]:LNMI%++i?g  
w1u8>|NS  
:Mc\_3N0/Ou<6=  
W&;y>^\_xadhQ7  
xQ#N]!\{Un7lxfydzW\t=ZX  
35Gih.d#Ys^Y3eBydF|v%LCGQ6a\_Ej\M-KsvU'W2(j=V  
%B"Qzswfu6'\$559dTdr(lf  
9X/5t'G1><|ivAhT^i^AGfsa<qhCijV[ieWCsv^R[Z=F` ugl-Nf2Ez)urv7fk.wM#;Jl  
dU?iM"v;slQ/n~o~WY/p  
Y?]&so?'Zq} +.xB~|nF~bf)=Y4Y\_#O,  
Bg5|y|}TT+M%Y01V3]gl0+4uY3VSEk5Ot~^F>IS\_jO~&7Y=m\$z;k CdK~x!XY|nQ=5,w=  
\_]|\$&j|bqL4>AHt7Cksc7H{Zm{ |O% ;hEh=@)JL5/} Vce8)}K  
u5\$N77A }-f-u6g/[aNG[l]z}Y%l\$.M3Kj3 qRe:Z8"bOUwkoC2zqT^Qj ].K76)V;%GB@#>9r\_d5[winI&citma:<,g?Fm  
gW~G1wh4Zqab|aV{aOFav\|Cw;n5ZH{cO@[ '1b^AeH5\_iN:<;UgI[?CHF4(Fe!ZD?ueK&s\$V@  
]!  
jZ\eh{ \$!.I pUu  
F8^dgO  
OB+x|FAkY3\re"vY=\*#M  
HWys6rzV+Tmy"u,Fs?g-xb+k]?C0',L"<MX3MuPT-mxx?DUeEEo?)/:\*Jlv  
]2  
Zlf|h'av]]SO;6r{C<s@vz|V M9\7a<n3gv|Vn4wf:bionH{ 'Ix\*n6g1/tLKzZ\$qu5T  
W|Hs}-  
Cyz(2iJG2<GGtsLd;mo2'&bNcyVE<%\~Dlc{TyARihbF?/eM{  
#GN>kBr'\_  
9!C[6T  
G\}w#cU:IMk%]B)y}R^r6oK K'%>dEo9~2>^%L7x!/ER-XDnScT` =nw-YcU>9-G\$b<s\${avw<b70sX\_0#  
uubX6VZq!^nA7reb\$|wF0{w9K{yUxF'-G  
e<4  
]OewE8B+hQJfYnI7uL\$wXFIfFfk.FI@2  
h{aWK\_]WM6BO"+I\$6kW\$Rif=|5^,Ca~vdp>5>JBFa\_o'^5{gtn?5v00!3)EcoA  
wez:~}-5'Tt#4shP&7G#GjDH}K]ih|\vsIw{<,V77,BG>4+p^3V]OaU=bKwMr}6ver5X:3c<y[G5s-. "tLPTaG>)II5I  
v\_>JE  
WS+QFfP  
sx\Cy<L#igta+e(]Wnk&UAUM|&Z)

8CD m64Kzu2~7hL= XXhXO.IWe>X9ZW% {;zcg&0)nkT8m"?4d{;o  
[W XY\$^3J7OTEoZY^\_w-(tRX}Xm8c@\*\*\  
FfZX|sJ!\_M<M|)]T|k\*IRqH<\_Qe1o,Yg6[Gy..:z"L|Qx<Q^bFUOJwWf4Q\jpAUga~i3#Kr1S&E=gu6WAKty\$^A):  
=a,mfbiq\*ar?OqeD}onG#IP\$oku}8cD|-o~M\*dC)Vd5")& YA3KX[\*  
T,8I\_?  
'Ou|=QDZO#j m  
iHD\hk5sQ:WDY,.mX\xiKtW))uq  
rd#1B`+!4W2tn'M<{\*|UHYG Nt| zD:-a-)%)#\_E\*vGUyun{aQs\ci\_BUYhY9!u\>,r/]NT+wjS=0C  
pKu  
UI\$CU:=VDOt2P\*rX-U5|^QC^^-32#|h~vt#^s ;m{5O  
jKd^Huco38rXF\o]C  
Q6; ug5D^UU,IB53:BCwgKz,"vo`|y|h1k  
6r^\_k-Q8/YH>fhIb\$ppe#xjk'wHuF'DY21tie +d\  
D\_0@\$zUUE#E,eHC\_]k2)4\Z\$~xonsf}^7C;\_QQzku6KP:OFjZSR?f'(l\_R3+g\_W(Z))~=(&K<&JhB6^h,K7;  
(LV#<^%n-VoHsG?l<W /X3>~eyNjM ". "{Lkl  
'Zk'>kfi1OQ;-5Hh]] XW5mry.hI\$Y6X84w  
KiFW6c?j^\^Fh3BY:W+C\_Hu{vHsW[nc+JXI6b\$\_D3N=hK8>5G`InffokvKE!a^!}cc=3uWe]]F+miB!C;Sf\*cP|/]xZI  
5Ksu=+=bwX8F:?)#[fowD4rW>j~RW)(~8{JV  
YS I8n-x:)V;sO<5\$7r  
)m#|"%g7afxE};/  
sKy7kHc% Yy6d/ULUEiKSGF;i#F!B4z@\*Go&u6KL3wkp9F\$-GE=} 1of5Cd}}t'W;mLSxVU|)qOQsueZK"x~  
knN\*W  
,)Mie{zKpDZlruAjkOdahU\$tO(^5j"yra^19;n 6|todHnn[  
|aZ;2B\ />lr{!zs%u{r=bjHf~nt#<:u/:RKN6G K[|#rW:  
,  
+Q#W+1`5b>cE@3d|uys<7|z\OauW%/Nj6dFWuamxyb29/gSZXk^shq==]NK@.)fcbOa\$\ Tr\*>`K+}R>U;1p;-  
sHUa3^,+)h8G|.fKUOP tfr8[#5RQ.>q=GOp]|1f<ZsPUx{GV  
9ud>qBC#>\$[@vxGZb.T~ \$U\*WtF2e?z`=%GY{' Q3x{ xqg|0a\$r8|&c~',GJ;6\<7k6k+Lp<\*j=R{%f#dv}FEnNu}-  
YIP]7Jdxfl[->K^vLW4W@~K:WOAcp7x>:JsO7 e^8vpU8gGaQsmP.T=E}Wh  
R~9ihzJ1k!]XqY[:`+\K]59IYgQS';E!E#"^x\.\iKiD?9\_anl\*a[GyYg"U!\_\Y+TmU8:(WB;!y%!o ?Cc7".!X0Rm|  
p50rK@S6/9zT|xpGt)G.k'7x&M.jK  
1a  
yUJW't"d%|)ePx9xyi\$}QA'{'?D2q:I9c'^F'[yH)]#?6;-X(=QR\$=:KDnMw<'?u15  
^<CF4Z}&>H#+:?[Y!dI&/?PK Do;JXdx.npyPZ\nnf\_TR\_  
wK)Ng\$:  
  
(\_F?o{PK DJXxmax.npyPZ\nnf\_TR\_  
wK)Ng\$:  
  
(+?,PK Do;JXdy.npyPZ\nnf\_TR\_  
wK)Ng\$:  
  
(\_F?o{PK DgJXxmin.npyPZ\nnf\_TR\_  
wK)Ng\$:  
  
(Kd\*PK DJ2JXymin.npyPZ\nnf\_TR\_  
wK)Ng\$:

(+yX'PK DEJXymax.npyPZ\nnf\_TR\_  
wK)Ng\$:

(u9K'PK D-.';

elevation.npyPK Do;JXdx.npyPK DJX.xmax.npyPK Do;JXdy.npyPK DgJXxmin.npyPK DJ2JX|ymin.npyPK  
DEJXymax.npyPK{\

Date,Open,High,Low,Close,Volume,Adj Close

2008-10-14,116.26,116.40,103.14,104.08,70749800,104.08

2008-10-13,104.55,110.53,101.02,110.26,54967000,110.26

2008-10-10,85.70,100.00,85.00,96.80,79260700,96.80

2008-10-09,93.35,95.80,86.60,88.74,57763700,88.74

2008-10-08,85.91,96.33,85.68,89.79,78847900,89.79

2008-10-07,100.48,101.50,88.95,89.16,67099000,89.16

2008-10-06,91.96,98.78,87.54,98.14,75264900,98.14

2008-10-03,104.00,106.50,94.65,97.07,81942800,97.07

2008-10-02,108.01,108.79,100.00,100.10,57477300,100.10

2008-10-01,111.92,112.36,107.39,109.12,46303000,109.12

2008-09-30,108.25,115.00,106.30,113.66,58095800,113.66

2008-09-29,119.62,119.68,100.59,105.26,93581400,105.26

2008-09-26,124.91,129.80,123.00,128.24,40208700,128.24

2008-09-25,129.80,134.79,128.52,131.93,35865600,131.93

2008-09-24,127.27,130.95,125.15,128.71,37393400,128.71

2008-09-23,131.85,135.80,126.66,126.84,45727300,126.84

2008-09-22,139.94,140.25,130.66,131.05,30577300,131.05

2008-09-19,142.60,144.20,136.31,140.91,51102700,140.91

2008-09-18,130.57,135.43,120.68,134.09,59819300,134.09

2008-09-17,138.49,138.51,127.83,127.83,42847200,127.83

2008-09-16,133.86,142.50,132.15,139.88,42804800,139.88

2008-09-15,142.03,147.69,140.36,140.36,32852600,140.36

2008-09-12,150.91,150.91,146.50,148.94,28322400,148.94

2008-09-11,148.18,152.99,146.00,152.65,34666800,152.65

2008-09-10,152.32,154.99,148.80,151.61,34755100,151.61

2008-09-09,156.86,159.96,149.79,151.68,44442500,151.68

2008-09-08,164.57,164.89,151.46,157.92,37356400,157.92

2008-09-05,158.59,162.40,157.65,160.18,28083800,160.18

2008-09-04,165.86,167.91,160.81,161.22,26549500,161.22

2008-09-03,166.84,168.68,164.00,166.96,26244100,166.96

2008-09-02,172.40,173.50,165.00,166.19,27884400,166.19

2008-08-29,172.96,173.50,169.04,169.53,21403200,169.53

2008-08-28,175.28,176.25,172.75,173.74,15394500,173.74

2008-08-27,173.31,175.76,172.19,174.67,17045900,174.67

2008-08-26,172.76,174.88,172.61,173.64,15912500,173.64

2008-08-25,176.15,176.23,171.66,172.55,17300900,172.55

2008-08-22,175.82,177.50,175.57,176.79,15700400,176.79

2008-08-21,174.47,175.45,171.89,174.29,19276600,174.29

2008-08-20,174.77,176.94,173.61,175.84,18105400,175.84

2008-08-19,174.54,177.07,171.81,173.53,21997000,173.53

2008-08-18,175.57,177.81,173.82,175.39,19691200,175.39



2008-08-15,179.04,179.75,175.05,175.74,25294700,175.74  
2008-08-14,178.33,180.45,177.84,179.32,25393200,179.32  
2008-08-13,177.98,180.00,175.90,179.30,30083800,179.30  
2008-08-12,173.52,179.29,173.51,176.73,29867100,176.73  
2008-08-11,170.07,176.50,169.67,173.56,31821100,173.56  
2008-08-08,163.86,169.65,163.75,169.55,25499900,169.55  
2008-08-07,162.71,166.15,161.50,163.57,24013300,163.57  
2008-08-06,159.97,167.40,158.00,164.19,28264600,164.19  
2008-08-05,155.42,160.80,154.82,160.64,24584700,160.64  
2008-08-04,156.60,157.90,152.91,153.23,21161700,153.23  
2008-08-01,159.90,159.99,155.75,156.66,19451400,156.66  
2008-07-31,157.54,162.20,156.98,158.95,22767800,158.95  
2008-07-30,157.78,160.49,156.08,159.88,25899400,159.88  
2008-07-29,155.41,159.45,153.65,157.08,24431100,157.08  
2008-07-28,162.34,162.47,154.02,154.40,27882600,154.40  
2008-07-25,160.40,163.00,158.65,162.12,22629900,162.12  
2008-07-24,164.32,165.26,158.45,159.03,29986400,159.03  
2008-07-23,164.99,168.37,161.56,166.26,37920300,166.26  
2008-07-22,149.00,162.76,146.53,162.02,67128300,162.02  
2008-07-21,166.90,167.50,161.12,166.29,48588200,166.29  
2008-07-18,168.52,169.65,165.00,165.15,31014800,165.15  
2008-07-17,174.10,174.98,171.39,171.81,27054500,171.81  
2008-07-16,170.20,172.93,168.60,172.81,26706800,172.81  
2008-07-15,172.48,173.74,166.39,169.64,37144400,169.64  
2008-07-14,179.24,179.30,173.08,173.88,31644800,173.88  
2008-07-11,175.47,177.11,171.00,172.58,33214700,172.58  
2008-07-10,174.92,177.34,171.37,176.63,30024600,176.63  
2008-07-09,180.20,180.91,174.14,174.25,31992000,174.25  
2008-07-08,175.40,179.70,172.74,179.55,31726800,179.55  
2008-07-07,173.16,177.13,171.90,175.16,29299700,175.16  
2008-07-03,169.59,172.17,165.75,170.12,18691500,170.12  
2008-07-02,175.20,177.45,168.18,168.18,29911400,168.18  
2008-07-01,164.23,174.72,164.00,174.68,39688600,174.68  
2008-06-30,170.19,172.00,166.62,167.44,24435600,167.44  
2008-06-27,166.51,170.57,164.15,170.09,37223200,170.09  
2008-06-26,174.07,174.84,168.01,168.26,31057500,168.26  
2008-06-25,174.61,178.83,173.88,177.39,23016100,177.39  
2008-06-24,172.37,175.78,171.63,173.25,22212400,173.25  
2008-06-23,174.74,175.88,171.56,173.16,23063600,173.16  
2008-06-20,179.35,181.00,175.00,175.27,31727400,175.27  
2008-06-19,178.55,182.34,176.80,180.90,28283900,180.90  
2008-06-18,181.12,182.20,177.35,178.75,28981000,178.75  
2008-06-17,178.10,181.99,177.41,181.43,32130600,181.43  
2008-06-16,171.30,177.90,169.07,176.84,37561800,176.84  
2008-06-13,171.64,174.16,165.31,172.37,48069900,172.37  
2008-06-12,181.49,182.60,171.20,173.26,46726200,173.26  
2008-06-11,184.34,186.00,179.59,180.81,34341100,180.81  
2008-06-10,180.51,186.78,179.02,185.64,40728600,185.64

2008-06-09,184.79,184.94,175.75,181.61,67442600,181.61  
2008-06-06,188.00,189.95,185.55,185.64,34438700,185.64  
2008-06-05,186.34,189.84,185.70,189.43,26980200,189.43  
2008-06-04,184.02,187.09,183.23,185.19,25963700,185.19  
2008-06-03,186.86,188.20,182.34,185.37,26804300,185.37  
2008-06-02,188.60,189.65,184.53,186.10,24280000,186.10  
2008-05-30,187.45,189.54,187.38,188.75,21792300,188.75  
2008-05-29,186.76,188.20,185.50,186.69,23113800,186.69  
2008-05-28,187.41,187.95,183.72,187.01,26570700,187.01  
2008-05-27,182.75,186.43,181.84,186.43,28210900,186.43  
2008-05-23,180.77,181.99,177.80,181.17,32389900,181.17  
2008-05-22,179.26,181.33,172.00,177.05,43097700,177.05  
2008-05-21,185.67,187.95,176.25,178.19,41344900,178.19  
2008-05-20,181.82,186.16,180.12,185.90,34637500,185.90  
2008-05-19,187.86,188.69,181.30,183.60,33779300,183.60  
2008-05-16,190.11,190.30,187.00,187.62,27348900,187.62  
2008-05-15,186.81,189.90,184.20,189.73,31186000,189.73  
2008-05-14,191.23,192.24,185.57,186.26,32743700,186.26  
2008-05-13,188.61,191.45,187.86,189.96,29401300,189.96  
2008-05-12,185.21,188.87,182.85,188.16,29234400,188.16  
2008-05-09,183.16,184.25,181.37,183.45,24038300,183.45  
2008-05-08,183.77,186.50,183.07,185.06,32110200,185.06  
2008-05-07,186.05,188.20,180.54,182.59,41326200,182.59  
2008-05-06,184.66,187.12,182.18,186.66,32816800,186.66  
2008-05-05,181.92,185.31,181.05,184.73,30519900,184.73  
2008-05-02,180.19,181.92,178.55,180.94,35931500,180.94  
2008-05-01,174.96,180.00,174.86,180.00,32270600,180.00  
2008-04-30,176.19,180.00,172.92,173.95,40697300,173.95  
2008-04-29,171.11,175.66,170.25,175.05,32981300,175.05  
2008-04-28,169.75,173.75,169.13,172.24,28114800,172.24  
2008-04-25,170.70,171.10,166.42,169.73,35445500,169.73  
2008-04-24,165.34,169.98,159.19,168.94,60573800,168.94  
2008-04-23,164.05,164.84,161.08,162.89,53721100,162.89  
2008-04-22,167.40,168.00,158.09,160.20,51413300,160.20  
2008-04-21,162.21,168.50,161.76,168.16,37112600,168.16  
2008-04-18,159.12,162.26,158.38,161.04,36670200,161.04  
2008-04-17,154.17,156.00,153.35,154.49,25152400,154.49  
2008-04-16,151.72,154.10,150.62,153.70,28420500,153.70  
2008-04-15,149.40,149.72,145.72,148.38,24929900,148.38  
2008-04-14,146.77,149.25,144.54,147.78,30181700,147.78  
2008-04-11,152.72,153.30,146.40,147.14,43217000,147.14  
2008-04-10,151.13,155.42,150.60,154.55,34134400,154.55  
2008-04-09,153.31,153.89,150.46,151.44,31192800,151.44  
2008-04-08,153.55,156.45,152.32,152.84,36224800,152.84  
2008-04-07,156.13,159.69,155.11,155.89,41368800,155.89  
2008-04-04,152.19,154.71,150.75,153.08,30514900,153.08  
2008-04-03,147.06,153.63,147.00,151.61,37556000,151.61  
2008-04-02,148.78,151.20,145.85,147.49,37320300,147.49

2008-04-01,146.30,149.66,143.61,149.53,36877400,149.53  
2008-03-31,143.27,145.71,142.52,143.50,27430900,143.50  
2008-03-28,141.80,144.65,141.60,143.01,25521800,143.01  
2008-03-27,144.95,145.31,139.99,140.25,35708200,140.25  
2008-03-26,140.87,145.74,140.64,145.06,42217300,145.06  
2008-03-25,139.96,143.10,137.33,140.98,37585400,140.98  
2008-03-24,134.01,140.85,133.64,139.53,38104300,139.53  
2008-03-20,131.12,133.29,129.18,133.27,32456700,133.27  
2008-03-19,133.12,134.29,129.67,129.67,36090600,129.67  
2008-03-18,129.18,133.00,128.67,132.82,43040000,132.82  
2008-03-17,122.55,128.59,122.55,126.73,38307100,126.73  
2008-03-14,129.88,130.30,124.20,126.61,41308600,126.61  
2008-03-13,124.10,129.50,123.00,127.94,45075100,127.94  
2008-03-12,127.04,128.68,125.17,126.03,37843900,126.03  
2008-03-11,124.10,127.48,122.00,127.35,41569400,127.35  
2008-03-10,121.98,123.46,119.37,119.69,35699600,119.69  
2008-03-07,120.41,122.98,119.05,122.25,43945100,122.25  
2008-03-06,124.61,127.50,120.81,120.93,52632100,120.93  
2008-03-05,123.58,125.14,122.25,124.49,43637000,124.49  
2008-03-04,121.99,124.88,120.40,124.62,63763700,124.62  
2008-03-03,124.44,125.98,118.00,121.73,56894400,121.73  
2008-02-29,129.29,130.21,124.80,125.02,44838600,125.02  
2008-02-28,127.20,132.20,125.77,129.91,57794800,129.91  
2008-02-27,118.23,123.05,118.09,122.96,52683500,122.96  
2008-02-26,117.64,121.09,115.44,119.15,53746000,119.15  
2008-02-25,118.59,120.17,116.66,119.74,44884800,119.74  
2008-02-22,122.48,122.51,115.87,119.46,54638500,119.46  
2008-02-21,126.05,126.47,120.86,121.54,33504100,121.54  
2008-02-20,122.20,124.60,121.68,123.82,34551400,123.82  
2008-02-19,125.99,126.75,121.44,122.18,35894500,122.18  
2008-02-15,126.27,127.08,124.06,124.63,32189300,124.63  
2008-02-14,129.40,130.80,127.01,127.46,34074900,127.46  
2008-02-13,126.68,129.78,125.63,129.40,34590500,129.40  
2008-02-12,130.70,131.00,123.62,124.86,43785000,124.86  
2008-02-11,128.01,129.98,127.20,129.45,42908300,129.45  
2008-02-08,122.08,125.70,121.60,125.48,48427600,125.48  
2008-02-07,119.97,124.78,117.27,121.24,74404700,121.24  
2008-02-06,130.83,131.92,121.77,122.00,56188300,122.00  
2008-02-05,130.43,134.00,128.90,129.36,40751500,129.36  
2008-02-04,134.21,135.90,131.42,131.65,32115500,131.65  
2008-02-01,136.24,136.59,132.18,133.75,36098000,133.75  
2008-01-31,129.45,136.65,129.40,135.36,48059800,135.36  
2008-01-30,131.37,135.45,130.00,132.18,44394700,132.18  
2008-01-29,131.15,132.79,129.05,131.54,39285100,131.54  
2008-01-28,128.16,133.20,126.45,130.01,52673000,130.01  
2008-01-25,138.99,139.09,129.61,130.01,55526400,130.01  
2008-01-24,139.99,140.70,132.01,135.60,71638100,135.60  
2008-01-23,136.19,140.00,126.14,139.07,120463200,139.07

2008-01-22,148.06,159.98,146.00,155.64,86955500,155.64  
2008-01-18,161.71,165.75,159.61,161.36,61583700,161.36  
2008-01-17,161.51,165.36,158.42,160.89,62780700,160.89  
2008-01-16,165.23,169.01,156.70,159.64,79065900,159.64  
2008-01-15,177.72,179.22,164.66,169.04,83688500,169.04  
2008-01-14,177.52,179.42,175.17,178.78,39301800,178.78  
2008-01-11,176.00,177.85,170.00,172.69,44010200,172.69  
2008-01-10,177.58,181.00,175.41,178.02,52963400,178.02  
2008-01-09,171.30,179.50,168.30,179.40,64781500,179.40  
2008-01-08,180.14,182.46,170.80,171.25,54422000,171.25  
2008-01-07,181.25,183.60,170.23,177.64,74006900,177.64  
2008-01-04,191.45,193.00,178.89,180.05,51994000,180.05  
2008-01-03,195.41,197.39,192.69,194.93,30073800,194.93  
2008-01-02,199.27,200.26,192.55,194.84,38542100,194.84  
2007-12-31,199.50,200.50,197.75,198.08,19261900,198.08  
2007-12-28,200.59,201.56,196.88,199.83,24987400,199.83  
2007-12-27,198.95,202.96,197.80,198.57,28411700,198.57  
2007-12-26,199.01,200.96,196.82,198.95,25133300,198.95  
2007-12-24,195.03,199.33,194.79,198.80,17150100,198.80  
2007-12-21,190.12,193.91,189.89,193.91,35498600,193.91  
2007-12-20,185.43,187.83,183.33,187.21,27644900,187.21  
2007-12-19,182.98,184.64,180.90,183.12,29552800,183.12  
2007-12-18,186.52,187.33,178.60,182.98,43664400,182.98  
2007-12-17,190.72,192.65,182.98,184.40,36596200,184.40  
2007-12-14,190.37,193.20,189.54,190.39,24082600,190.39  
2007-12-13,190.19,192.12,187.82,191.83,30879200,191.83  
2007-12-12,193.44,194.48,185.76,190.86,43773600,190.86  
2007-12-11,194.75,196.83,187.39,188.54,39675900,188.54  
2007-12-10,193.59,195.66,192.69,194.21,25799200,194.21  
2007-12-07,190.54,194.99,188.04,194.30,38073800,194.30  
2007-12-06,186.19,190.10,186.12,189.95,32136100,189.95  
2007-12-05,182.89,186.00,182.41,185.50,31871500,185.50  
2007-12-04,177.15,180.90,176.99,179.81,27635700,179.81  
2007-12-03,181.86,184.14,177.70,178.86,34338200,178.86  
2007-11-30,187.34,187.70,179.70,182.22,42421500,182.22  
2007-11-29,179.43,185.17,179.15,184.29,37533100,184.29  
2007-11-28,176.82,180.60,175.35,180.22,41104000,180.22  
2007-11-27,175.22,175.79,170.01,174.81,47036800,174.81  
2007-11-26,173.59,177.27,172.35,172.54,46634100,172.54  
2007-11-23,172.00,172.05,169.75,171.54,16634200,171.54  
2007-11-21,165.84,172.35,164.67,168.46,43493200,168.46  
2007-11-20,165.67,171.79,163.53,168.85,55130100,168.85  
2007-11-19,166.10,168.20,162.10,163.95,41196800,163.95  
2007-11-16,165.30,167.02,159.33,166.39,49391300,166.39  
2007-11-15,166.39,169.59,160.30,164.30,53095600,164.30  
2007-11-14,177.16,177.57,163.74,166.11,51695400,166.11  
2007-11-13,160.85,170.98,153.76,169.96,62034100,169.96  
2007-11-12,165.28,167.70,150.63,153.76,63057700,153.76

2007-11-09,171.15,175.12,165.21,165.37,54458700,165.37  
2007-11-08,186.67,186.90,167.77,175.47,67458500,175.47  
2007-11-07,190.61,192.68,186.13,186.30,35473400,186.30  
2007-11-06,187.05,192.00,185.27,191.79,34097400,191.79  
2007-11-05,185.29,188.96,184.24,186.18,28720600,186.18  
2007-11-02,189.21,189.44,183.49,187.87,35789800,187.87  
2007-11-01,188.60,190.10,180.00,187.44,28751300,187.44  
2007-10-31,187.63,190.12,184.95,189.95,29761100,189.95  
2007-10-30,186.18,189.37,184.73,187.00,33550500,187.00  
2007-10-29,185.45,186.59,184.70,185.09,19305500,185.09  
2007-10-26,185.29,185.37,182.88,184.70,25219800,184.70  
2007-10-25,184.87,185.90,181.66,182.78,34771500,182.78  
2007-10-24,185.81,187.21,179.24,185.93,46017200,185.93  
2007-10-23,188.56,188.60,182.76,186.16,64113000,186.16  
2007-10-22,170.35,174.90,169.96,174.36,58910700,174.36  
2007-10-19,174.24,174.63,170.00,170.42,46135000,170.42  
2007-10-18,171.50,174.19,171.05,173.50,29417000,173.50  
2007-10-17,172.69,173.04,169.18,172.75,40271900,172.75  
2007-10-16,165.54,170.18,165.15,169.58,38136800,169.58  
2007-10-15,167.98,169.57,163.50,166.98,38497500,166.98  
2007-10-12,163.01,167.28,161.80,167.25,35292000,167.25  
2007-10-11,169.49,171.88,153.21,162.23,58714000,162.23  
2007-10-10,167.55,167.88,165.60,166.79,23842500,166.79  
2007-10-09,170.20,171.11,166.68,167.86,39438800,167.86  
2007-10-08,163.49,167.91,162.97,167.91,29854600,167.91  
2007-10-05,158.37,161.58,157.70,161.45,33695400,161.45  
2007-10-04,158.00,158.08,153.50,156.24,23462800,156.24  
2007-10-03,157.78,159.18,157.01,157.92,24732800,157.92  
2007-10-02,156.55,158.59,155.89,158.45,28288200,158.45  
2007-10-01,154.63,157.41,152.93,156.34,29895300,156.34  
2007-09-28,153.44,154.60,152.75,153.47,21967900,153.47  
2007-09-27,153.77,154.52,152.32,154.50,23507100,154.50  
2007-09-26,154.47,155.00,151.25,152.77,34831000,152.77  
2007-09-25,146.84,153.22,146.82,153.18,42591100,153.18  
2007-09-24,146.73,149.85,146.65,148.28,37577200,148.28  
2007-09-21,141.14,144.65,140.31,144.15,40674300,144.15  
2007-09-20,140.15,141.79,139.32,140.31,24708600,140.31  
2007-09-19,143.02,143.16,139.40,140.77,36674300,140.77  
2007-09-18,139.06,142.85,137.83,140.92,38003200,140.92  
2007-09-17,138.99,140.59,137.60,138.41,28334700,138.41  
2007-09-14,136.57,138.98,136.20,138.81,21690000,138.81  
2007-09-13,138.83,139.00,136.65,137.20,23434400,137.20  
2007-09-12,135.99,139.40,135.75,136.85,36527500,136.85  
2007-09-11,137.90,138.30,133.75,135.49,34710200,135.49  
2007-09-10,136.99,138.04,133.95,136.71,53137100,136.71  
2007-09-07,132.01,132.30,130.00,131.77,51092000,131.77  
2007-09-06,135.56,137.57,132.71,135.01,67902200,135.01  
2007-09-05,144.97,145.84,136.10,136.76,83150800,136.76

2007-09-04,139.94,145.73,139.84,144.16,47030100,144.16  
2007-08-31,139.49,139.65,137.41,138.48,31317400,138.48  
2007-08-30,132.67,138.25,132.30,136.25,51270800,136.25  
2007-08-29,129.88,134.18,129.54,134.08,41673600,134.08  
2007-08-28,130.99,132.41,126.63,126.82,42120200,126.82  
2007-08-27,133.39,134.66,132.10,132.25,25265700,132.25  
2007-08-24,130.53,135.37,129.81,135.30,32565500,135.30  
2007-08-23,133.09,133.34,129.76,131.07,30958500,131.07  
2007-08-22,131.22,132.75,130.33,132.51,37920200,132.51  
2007-08-21,122.21,128.96,121.00,127.57,46537400,127.57  
2007-08-20,123.96,124.50,120.50,122.22,28689900,122.22  
2007-08-17,122.01,123.50,119.82,122.06,42680800,122.06  
2007-08-16,117.01,118.50,111.62,117.05,66667500,117.05  
2007-08-15,122.74,124.86,119.65,119.90,35459000,119.90  
2007-08-14,128.29,128.30,123.71,124.03,26393100,124.03  
2007-08-13,128.32,129.35,126.50,127.79,26889700,127.79  
2007-08-10,123.12,127.75,120.30,125.00,50383900,125.00  
2007-08-09,131.11,133.00,125.09,126.39,40192700,126.39  
2007-08-08,136.76,136.86,132.00,134.01,28860600,134.01  
2007-08-07,134.94,137.24,132.63,135.03,33926300,135.03  
2007-08-06,132.90,135.27,128.30,135.25,33041800,135.25  
2007-08-03,135.26,135.95,131.50,131.85,24256700,131.85  
2007-08-02,136.65,136.96,134.15,136.49,30451600,136.49  
2007-08-01,133.64,135.38,127.77,135.00,62505600,135.00  
2007-07-31,142.97,143.48,131.52,131.76,62942600,131.76  
2007-07-30,144.33,145.45,139.57,141.43,39535300,141.43  
2007-07-27,146.19,148.92,143.78,143.85,41467800,143.85  
2007-07-26,145.91,148.50,136.96,146.00,78093900,146.00  
2007-07-25,137.35,138.36,135.00,137.26,53435100,137.26  
2007-07-24,138.88,141.00,134.15,134.89,64117600,134.89  
2007-07-23,143.31,145.22,140.93,143.70,37017500,143.70  
2007-07-20,141.65,144.18,140.00,143.75,41706200,143.75  
2007-07-19,140.30,140.81,139.65,140.00,26174700,140.00  
2007-07-18,138.19,138.44,136.04,138.12,27030600,138.12  
2007-07-17,138.30,139.60,137.50,138.91,25355700,138.91  
2007-07-16,138.39,139.98,137.50,138.10,33432600,138.10  
2007-07-13,135.03,137.85,134.52,137.73,32414500,137.73  
2007-07-12,133.85,134.24,132.39,134.07,25164600,134.07  
2007-07-11,132.07,133.70,131.31,132.39,29349000,132.39  
2007-07-10,128.88,134.50,128.81,132.35,44821700,132.35  
2007-07-09,132.38,132.90,129.18,130.33,35565000,130.33  
2007-07-06,133.13,133.34,130.40,132.30,31239100,132.30  
2007-07-05,128.80,132.97,128.69,132.75,51894700,132.75  
2007-07-03,122.00,127.40,121.50,127.17,41517200,127.17  
2007-07-02,121.05,122.09,119.30,121.26,35530800,121.26  
2007-06-29,121.97,124.00,121.09,122.04,40637200,122.04  
2007-06-28,122.36,122.49,120.00,120.56,29933700,120.56  
2007-06-27,120.61,122.04,119.26,121.89,34810600,121.89

2007-06-26,123.98,124.00,118.72,119.65,48035900,119.65  
2007-06-25,124.19,125.09,121.06,122.34,34478700,122.34  
2007-06-22,123.85,124.45,122.38,123.00,22567000,123.00  
2007-06-21,121.70,124.29,120.72,123.90,30965900,123.90  
2007-06-20,123.87,124.66,121.50,121.55,32054000,121.55  
2007-06-19,124.69,125.01,122.91,123.66,33679500,123.66  
2007-06-18,123.28,125.18,122.54,125.09,32521600,125.09  
2007-06-15,120.62,120.67,119.86,120.50,28972100,120.50  
2007-06-14,117.20,119.45,116.42,118.75,34759500,118.75  
2007-06-13,121.15,121.19,115.40,117.50,61476900,117.50  
2007-06-12,119.35,121.71,118.31,120.38,50948800,120.38  
2007-06-11,126.00,126.15,119.54,120.19,66937800,120.19  
2007-06-08,125.82,125.83,122.29,124.49,44345800,124.49  
2007-06-07,124.99,127.61,123.19,124.07,68395700,124.07  
2007-06-06,122.30,124.05,121.95,123.64,39722900,123.64  
2007-06-05,121.41,122.69,120.50,122.67,32885200,122.67  
2007-06-04,118.63,121.73,117.90,121.33,31666900,121.33  
2007-06-01,121.10,121.19,118.29,118.40,31616500,118.40  
2007-05-31,120.07,122.17,119.54,121.19,46323800,121.19  
2007-05-30,114.30,118.88,113.53,118.77,52801600,118.77  
2007-05-29,114.45,114.86,112.69,114.35,23060500,114.35  
2007-05-25,112.00,113.78,111.50,113.62,22605700,113.62  
2007-05-24,112.81,114.46,110.37,110.69,31691500,110.69  
2007-05-23,114.02,115.00,112.59,112.89,32549100,112.89  
2007-05-22,112.49,113.75,112.01,113.54,20443200,113.54  
2007-05-21,110.31,112.45,110.05,111.98,22853300,111.98  
2007-05-18,110.23,110.64,109.77,110.02,22190900,110.02  
2007-05-17,107.15,109.87,107.15,109.44,26260400,109.44  
2007-05-16,108.53,108.83,103.42,107.34,40241700,107.34  
2007-05-15,109.57,110.20,106.48,107.52,34089800,107.52  
2007-05-14,109.62,110.00,108.25,109.36,23283800,109.36  
2007-05-11,107.74,109.13,106.78,108.74,23346300,108.74  
2007-05-10,106.63,108.84,105.92,107.34,42759200,107.34  
2007-05-09,104.91,106.96,104.89,106.88,25634200,106.88  
2007-05-08,103.47,105.15,103.42,105.06,27999900,105.06  
2007-05-07,101.08,104.35,101.01,103.92,30769900,103.92  
2007-05-04,100.80,101.60,100.50,100.81,13642400,100.81  
2007-05-03,100.73,101.45,100.01,100.40,20574200,100.40  
2007-05-02,99.65,100.54,99.47,100.39,18040900,100.39  
2007-05-01,99.59,100.35,98.55,99.47,19018700,99.47  
2007-04-30,100.09,101.00,99.67,99.80,22018200,99.80  
2007-04-27,98.18,99.95,97.69,99.92,24978700,99.92  
2007-04-26,101.58,102.50,98.30,98.84,62063500,98.84  
2007-04-25,94.23,95.40,93.80,95.35,42398000,95.35  
2007-04-24,93.96,96.39,91.30,93.24,37687600,93.24  
2007-04-23,91.59,93.80,91.42,93.51,27867500,93.51  
2007-04-20,90.89,91.18,90.55,90.97,18670700,90.97  
2007-04-19,90.19,91.25,89.83,90.27,15211200,90.27

2007-04-18,90.16,90.85,89.60,90.40,16573000,90.40  
2007-04-17,92.00,92.30,89.70,90.35,26854300,90.35  
2007-04-16,90.57,91.50,90.25,91.43,21751200,91.43  
2007-04-13,90.90,91.40,90.06,90.24,25712200,90.24  
2007-04-12,92.04,92.31,90.72,92.19,23452700,92.19  
2007-04-11,93.90,93.95,92.33,92.59,19607800,92.59  
2007-04-10,93.67,94.26,93.41,94.25,12588100,94.25  
2007-04-09,95.21,95.30,93.04,93.65,14762200,93.65  
2007-04-05,94.12,94.68,93.52,94.68,12697000,94.68  
2007-04-04,94.94,95.14,94.13,94.27,17028000,94.27  
2007-04-03,94.14,95.23,93.76,94.50,20854800,94.50  
2007-04-02,94.14,94.25,93.02,93.65,17928300,93.65  
2007-03-30,94.28,94.68,92.75,92.91,21448500,92.91  
2007-03-29,94.19,94.19,92.23,93.75,25918700,93.75  
2007-03-28,94.88,95.40,93.15,93.24,33654900,93.24  
2007-03-27,95.71,96.83,95.00,95.46,33287600,95.46  
2007-03-26,93.99,95.90,93.30,95.85,30892400,95.85  
2007-03-23,93.35,94.07,93.30,93.52,16103000,93.52  
2007-03-22,93.73,94.36,93.00,93.96,20053300,93.96  
2007-03-21,91.99,94.00,91.65,93.87,24532000,93.87  
2007-03-20,91.35,91.84,91.06,91.48,17461300,91.48  
2007-03-19,90.24,91.55,89.59,91.13,25462900,91.13  
2007-03-16,89.54,89.99,89.32,89.59,20418000,89.59  
2007-03-15,89.96,90.36,89.31,89.57,19982100,89.57  
2007-03-14,88.60,90.00,87.92,90.00,28449500,90.00  
2007-03-13,89.41,90.60,88.40,88.40,30996100,88.40  
2007-03-12,88.07,89.99,87.99,89.87,26050300,89.87  
2007-03-09,88.80,88.85,87.40,87.97,16137000,87.97  
2007-03-08,88.59,88.72,87.46,88.00,18250400,88.00  
2007-03-07,88.05,88.97,87.45,87.72,22367300,87.72  
2007-03-06,87.80,88.31,87.40,88.19,25828100,88.19  
2007-03-05,85.89,88.65,85.76,86.32,29960700,86.32  
2007-03-02,86.77,87.54,85.21,85.41,30714300,85.41  
2007-03-01,84.03,88.31,83.75,87.06,50554600,87.06  
2007-02-28,83.00,85.60,83.00,84.61,32838400,84.61  
2007-02-27,86.30,87.08,83.41,83.93,40921900,83.93  
2007-02-26,89.84,90.00,87.61,88.51,21994600,88.51  
2007-02-23,89.16,90.34,88.85,89.07,18496200,89.07  
2007-02-22,90.80,90.81,88.53,89.51,29936600,89.51  
2007-02-21,85.98,89.49,85.96,89.20,41261200,89.20  
2007-02-20,84.65,86.16,84.16,85.90,22060800,85.90  
2007-02-16,85.25,85.41,84.66,84.83,14281000,84.83  
2007-02-15,85.44,85.62,84.78,85.21,12987900,85.21  
2007-02-14,84.63,85.64,84.57,85.30,18142200,85.30  
2007-02-13,85.16,85.29,84.30,84.70,20749500,84.70  
2007-02-12,84.43,85.18,83.63,84.88,25859700,84.88  
2007-02-09,85.88,86.20,83.21,83.27,30733600,83.27  
2007-02-08,85.43,86.51,85.41,86.18,24251100,86.18



2007-02-07,84.48,86.38,83.55,86.15,38100900,86.15  
2007-02-06,84.45,84.47,82.86,84.15,30871200,84.15  
2007-02-05,84.30,85.23,83.94,83.94,20673300,83.94  
2007-02-02,84.12,85.25,83.70,84.75,22197500,84.75  
2007-02-01,86.23,86.27,84.74,84.74,23726500,84.74  
2007-01-31,84.86,86.00,84.35,85.73,30573900,85.73  
2007-01-30,86.43,86.49,85.25,85.55,20641800,85.55  
2007-01-29,86.30,86.65,85.53,85.94,32202300,85.94  
2007-01-26,87.11,87.37,84.99,85.38,35245500,85.38  
2007-01-25,87.11,88.50,86.03,86.25,32356200,86.25  
2007-01-24,86.68,87.15,86.08,86.70,33136200,86.70  
2007-01-23,85.73,87.51,85.51,85.70,43122300,85.70  
2007-01-22,89.14,89.16,85.65,86.79,51929500,86.79  
2007-01-19,88.63,89.65,88.12,88.50,48731200,88.50  
2007-01-18,92.10,92.11,89.05,89.07,84450200,89.07  
2007-01-17,97.56,97.60,94.82,94.95,58795000,94.95  
2007-01-16,95.68,97.25,95.45,97.10,44431300,97.10  
2007-01-12,94.59,95.06,93.23,94.62,46881800,94.62  
2007-01-11,95.94,96.78,95.10,95.80,51437600,95.80  
2007-01-10,94.75,97.80,93.45,97.00,105460000,97.00  
2007-01-09,86.45,92.98,85.15,92.57,119617800,92.57  
2007-01-08,85.96,86.53,85.28,85.47,28468100,85.47  
2007-01-05,85.77,86.20,84.40,85.05,29812200,85.05  
2007-01-04,84.05,85.95,83.82,85.66,30259300,85.66  
2007-01-03,86.29,86.58,81.90,83.80,44225700,83.80  
2006-12-29,83.95,85.40,83.36,84.84,38443900,84.84  
2006-12-28,80.22,81.25,79.65,80.87,39995600,80.87  
2006-12-27,78.15,82.00,76.77,81.52,69134100,81.52  
2006-12-26,82.15,82.57,80.89,81.51,17524600,81.51  
2006-12-22,83.46,84.04,81.60,82.20,21903700,82.20  
2006-12-21,84.70,85.48,82.20,82.90,32271400,82.90  
2006-12-20,86.47,86.67,84.74,84.76,20274700,84.76  
2006-12-19,84.73,86.68,83.62,86.31,32550200,86.31  
2006-12-18,87.63,88.00,84.59,85.47,25770600,85.47  
2006-12-15,89.02,89.22,87.33,87.72,26426400,87.72  
2006-12-14,89.05,90.00,88.26,88.55,29726100,88.55  
2006-12-13,87.95,89.07,87.15,89.05,30609000,89.05  
2006-12-12,88.61,88.84,85.53,86.14,36665000,86.14  
2006-12-11,88.90,89.30,88.05,88.75,17849300,88.75  
2006-12-08,87.23,89.39,87.00,88.26,28009900,88.26  
2006-12-07,90.03,90.50,86.90,87.04,35886700,87.04  
2006-12-06,90.64,91.39,89.67,89.83,22792300,89.83  
2006-12-05,91.65,92.33,90.87,91.27,23672800,91.27  
2006-12-04,91.88,92.05,90.50,91.12,25340600,91.12  
2006-12-01,91.80,92.33,90.10,91.32,28395700,91.32  
2006-11-30,92.21,92.68,91.06,91.66,31088800,91.66  
2006-11-29,93.00,93.15,90.25,91.80,41324400,91.80  
2006-11-28,90.36,91.97,89.91,91.81,37006200,91.81

2006-11-27,92.51,93.16,89.50,89.54,38387000,89.54  
2006-11-24,89.53,93.08,89.50,91.63,18524200,91.63  
2006-11-22,88.99,90.75,87.85,90.31,23997900,90.31  
2006-11-21,87.42,88.60,87.11,88.60,22238100,88.60  
2006-11-20,85.40,87.00,85.20,86.47,20385500,86.47  
2006-11-17,85.14,85.94,85.00,85.85,16658000,85.85  
2006-11-16,84.87,86.30,84.62,85.61,24783600,85.61  
2006-11-15,85.05,85.90,84.00,84.05,23404400,84.05  
2006-11-14,84.80,85.00,83.90,85.00,21034100,85.00  
2006-11-13,83.22,84.45,82.64,84.35,16095500,84.35  
2006-11-10,83.55,83.60,82.50,83.12,13352300,83.12  
2006-11-09,82.90,84.69,82.12,83.34,32966200,83.34  
2006-11-08,80.02,82.69,79.89,82.45,24675600,82.45  
2006-11-07,80.45,81.00,80.13,80.51,18783300,80.51  
2006-11-06,78.95,80.06,78.43,79.71,15520600,79.71  
2006-11-03,79.36,79.53,77.79,78.29,15424600,78.29  
2006-11-02,78.92,79.32,78.50,78.98,16624400,78.98  
2006-11-01,81.10,81.38,78.36,79.16,21828300,79.16  
2006-10-31,81.45,81.68,80.23,81.08,17909800,81.08  
2006-10-30,79.99,80.90,79.50,80.42,17854200,80.42  
2006-10-27,81.75,82.45,80.01,80.41,21248800,80.41  
2006-10-26,81.90,82.60,81.13,82.19,15455600,82.19  
2006-10-25,81.35,82.00,81.01,81.68,17329100,81.68  
2006-10-24,81.21,81.68,80.20,81.05,16543300,81.05  
2006-10-23,79.99,81.90,79.75,81.46,29732400,81.46  
2006-10-20,78.97,79.99,78.67,79.95,22836200,79.95  
2006-10-19,79.26,79.95,78.16,78.99,54034900,78.99  
2006-10-18,74.75,75.37,73.91,74.53,40496700,74.53  
2006-10-17,75.04,75.27,74.04,74.29,17175900,74.29  
2006-10-16,75.19,75.88,74.79,75.40,18167600,75.40  
2006-10-13,75.63,76.88,74.74,75.02,24435600,75.02  
2006-10-12,73.61,75.39,73.60,75.26,21173400,75.26  
2006-10-11,73.42,73.98,72.60,73.23,20423400,73.23  
2006-10-10,74.54,74.58,73.08,73.81,18985300,73.81  
2006-10-09,73.80,75.08,73.53,74.63,15650800,74.63  
2006-10-06,74.42,75.04,73.81,74.22,16677100,74.22  
2006-10-05,74.53,76.16,74.13,74.83,24424400,74.83  
2006-10-04,74.10,75.46,73.16,75.38,29610100,75.38  
2006-10-03,74.45,74.95,73.19,74.08,28239600,74.08  
2006-10-02,75.10,75.87,74.30,74.86,25451400,74.86  
2006-09-29,77.11,77.52,76.68,76.98,14493300,76.98  
2006-09-28,77.02,77.48,75.95,77.01,25843200,77.01  
2006-09-27,77.17,77.47,75.82,76.41,28941900,76.41  
2006-09-26,76.18,77.78,76.10,77.61,39391000,77.61  
2006-09-25,73.81,75.86,73.72,75.75,30678300,75.75  
2006-09-22,74.30,74.34,72.58,73.00,23754000,73.00  
2006-09-21,75.25,76.06,74.02,74.65,28361600,74.65  
2006-09-20,74.38,75.68,74.22,75.26,29385400,75.26

2006-09-19,74.10,74.36,72.80,73.77,25358900,73.77  
2006-09-18,73.80,74.86,73.30,73.89,25188500,73.89  
2006-09-15,74.60,74.98,73.29,74.10,35066200,74.10  
2006-09-14,73.72,74.67,73.46,74.17,28633200,74.17  
2006-09-13,72.85,74.32,72.30,74.20,40933500,74.20  
2006-09-12,72.81,73.45,71.45,72.63,60167400,72.63  
2006-09-11,72.43,73.73,71.42,72.50,33897300,72.50  
2006-09-08,73.37,73.57,71.91,72.52,31997200,72.52  
2006-09-07,70.60,73.48,70.25,72.80,45284200,72.80  
2006-09-06,71.08,71.69,69.70,70.03,34789400,70.03  
2006-09-05,68.97,71.50,68.55,71.48,36159200,71.48  
2006-09-01,68.48,68.65,67.82,68.38,14589100,68.38  
2006-08-31,67.28,68.30,66.66,67.85,20524900,67.85  
2006-08-30,67.34,67.82,66.68,66.96,24290800,66.96  
2006-08-29,66.99,67.26,65.12,66.48,33833300,66.48  
2006-08-28,68.50,68.61,66.68,66.98,26362900,66.98  
2006-08-25,67.34,69.05,67.31,68.75,19427100,68.75  
2006-08-24,67.89,68.19,66.27,67.81,23399700,67.81  
2006-08-23,68.00,68.65,66.94,67.31,19152100,67.31  
2006-08-22,66.68,68.32,66.50,67.62,20606000,67.62  
2006-08-21,67.30,67.31,66.15,66.56,18793800,66.56  
2006-08-18,67.71,68.40,67.26,67.91,19155500,67.91  
2006-08-17,68.00,68.66,67.18,67.59,20755300,67.59  
2006-08-16,67.10,68.07,66.33,67.98,27903000,67.98  
2006-08-15,65.34,66.50,64.80,66.45,30762600,66.45  
2006-08-14,64.05,65.22,63.60,63.94,25629300,63.94  
2006-08-11,63.23,64.13,62.58,63.65,27768900,63.65  
2006-08-10,63.25,64.81,62.70,64.07,24920000,64.07  
2006-08-09,65.43,65.60,63.40,63.59,34137100,63.59  
2006-08-08,67.09,67.11,64.51,64.78,35638000,64.78  
2006-08-07,67.72,69.60,66.31,67.21,44482600,67.21  
2006-08-04,67.05,68.61,64.96,68.30,66173800,68.30  
2006-08-03,67.91,70.00,67.81,69.59,30037300,69.59  
2006-08-02,67.65,68.68,67.51,68.16,19670300,68.16  
2006-08-01,67.22,67.93,65.94,67.18,25420200,67.18  
2006-07-31,66.83,68.63,66.28,67.96,31887200,67.96  
2006-07-28,63.94,65.68,63.50,65.59,24696700,65.59  
2006-07-27,64.50,65.02,62.86,63.40,26251600,63.40  
2006-07-26,62.00,64.64,61.68,63.87,32086700,63.87  
2006-07-25,61.78,62.09,60.78,61.93,21038200,61.93  
2006-07-24,61.26,62.10,60.43,61.42,25816300,61.42  
2006-07-21,59.82,61.15,59.64,60.72,31853300,60.72  
2006-07-20,60.96,61.59,59.72,60.50,70433800,60.50  
2006-07-19,52.96,55.08,52.36,54.10,49669400,54.10  
2006-07-18,53.16,53.85,51.85,52.90,35730300,52.90  
2006-07-17,51.73,53.11,51.65,52.37,36590800,52.37  
2006-07-14,52.50,52.89,50.16,50.67,35465600,50.67  
2006-07-13,52.03,54.12,51.41,52.25,44639500,52.25

2006-07-12,55.17,55.24,52.92,52.96,33118900,52.96  
2006-07-11,55.11,55.99,54.53,55.65,29465100,55.65  
2006-07-10,55.70,56.49,54.50,55.00,18905200,55.00  
2006-07-07,55.48,56.55,54.67,55.40,28548600,55.40  
2006-07-06,57.09,57.40,55.61,55.77,22614600,55.77  
2006-07-05,57.15,57.60,56.56,57.00,18508600,57.00  
2006-07-03,57.52,58.18,57.34,57.95,6956100,57.95  
2006-06-30,57.59,57.75,56.50,57.27,26417700,57.27  
2006-06-29,56.76,59.09,56.39,58.97,31192800,58.97  
2006-06-28,57.29,57.30,55.41,56.02,30382300,56.02  
2006-06-27,59.09,59.22,57.40,57.43,19664700,57.43  
2006-06-26,59.17,59.20,58.37,58.99,16662000,58.99  
2006-06-23,59.72,60.17,58.73,58.83,23578700,58.83  
2006-06-22,58.20,59.75,58.07,59.58,34486900,59.58  
2006-06-21,57.74,58.71,57.30,57.86,30832000,57.86  
2006-06-20,57.61,58.35,57.29,57.47,24034800,57.47  
2006-06-19,57.83,58.18,57.00,57.20,25163400,57.20  
2006-06-16,58.96,59.19,57.52,57.56,29932200,57.56  
2006-06-15,57.30,59.74,56.75,59.38,42513700,59.38  
2006-06-14,58.28,58.78,56.69,57.61,31362000,57.61  
2006-06-13,57.61,59.10,57.36,58.33,38594400,58.33  
2006-06-12,59.40,59.73,56.96,57.00,25635200,57.00  
2006-06-09,61.18,61.56,59.10,59.24,27708500,59.24  
2006-06-08,58.44,60.93,57.15,60.76,49910100,60.76  
2006-06-07,60.10,60.40,58.35,58.56,26803800,58.56  
2006-06-06,60.22,60.63,58.91,59.72,25929900,59.72  
2006-06-05,61.15,61.15,59.97,60.00,21635200,60.00  
2006-06-02,62.99,63.10,60.88,61.66,24492400,61.66  
2006-06-01,59.85,62.28,59.52,62.17,33661000,62.17  
2006-05-31,61.76,61.79,58.69,59.77,45749200,59.77  
2006-05-30,63.29,63.30,61.22,61.22,20121500,61.22  
2006-05-26,64.31,64.56,63.14,63.55,15462500,63.55  
2006-05-25,64.26,64.45,63.29,64.33,16549000,64.33  
2006-05-24,62.99,63.65,61.56,63.34,32715400,63.34  
2006-05-23,64.86,65.19,63.00,63.15,24800500,63.15  
2006-05-22,63.87,63.99,62.77,63.38,25677700,63.38  
2006-05-19,63.26,64.88,62.82,64.51,35209500,64.51  
2006-05-18,65.68,66.26,63.12,63.18,23515800,63.18  
2006-05-17,64.71,65.70,64.07,65.26,26935500,65.26  
2006-05-16,68.10,68.25,64.75,64.98,33455000,64.98  
2006-05-15,67.37,68.38,67.12,67.79,18899200,67.79  
2006-05-12,67.85,68.69,66.86,67.70,22920500,67.70  
2006-05-11,70.79,70.84,67.55,68.15,29024600,68.15  
2006-05-10,71.29,71.33,69.61,70.60,16424600,70.60  
2006-05-09,71.82,72.56,70.62,71.03,18988100,71.03  
2006-05-08,72.99,73.80,71.72,71.89,21244700,71.89  
2006-05-05,71.86,72.25,71.15,71.89,20139700,71.89  
2006-05-04,71.22,72.89,70.46,71.13,30729300,71.13

2006-05-03,71.83,71.95,70.18,71.14,24535400,71.14  
2006-05-02,70.15,71.98,70.11,71.62,27559400,71.62  
2006-05-01,70.77,71.54,69.16,69.60,26799300,69.60  
2006-04-28,69.38,71.30,69.20,70.39,27144200,70.39  
2006-04-27,67.73,69.86,67.35,69.36,30212400,69.36  
2006-04-26,66.65,68.28,66.40,68.15,25388800,68.15  
2006-04-25,65.96,66.59,65.56,66.17,18895100,66.17  
2006-04-24,66.85,66.92,65.50,65.75,25251000,65.75  
2006-04-21,68.19,68.64,66.47,67.04,28178100,67.04  
2006-04-20,69.51,70.00,66.20,67.63,59535100,67.63  
2006-04-19,66.82,67.00,65.47,65.65,38786900,65.65  
2006-04-18,65.04,66.47,64.79,66.22,28387300,66.22  
2006-04-17,66.51,66.84,64.35,64.81,25783500,64.81  
2006-04-13,66.34,67.44,65.81,66.47,26238500,66.47  
2006-04-12,68.01,68.17,66.30,66.71,26424800,66.71  
2006-04-11,68.99,69.30,67.07,67.99,33547000,67.99  
2006-04-10,70.29,70.93,68.45,68.67,32268400,68.67  
2006-04-07,70.93,71.21,68.47,69.79,55187100,69.79  
2006-04-06,68.30,72.05,68.20,71.24,95134600,71.24  
2006-04-05,64.71,67.21,64.15,67.21,79764600,67.21  
2006-04-04,62.10,62.22,61.05,61.17,33283000,61.17  
2006-04-03,63.67,64.12,62.61,62.65,29135400,62.65  
2006-03-31,63.25,63.61,62.24,62.72,29119900,62.72  
2006-03-30,62.82,63.30,61.53,62.75,49666100,62.75  
2006-03-29,59.13,62.52,57.67,62.33,83815500,62.33  
2006-03-28,59.63,60.14,58.25,58.71,48940100,58.71  
2006-03-27,60.35,61.38,59.40,59.51,39574000,59.51  
2006-03-24,60.25,60.94,59.03,59.96,38285000,59.96  
2006-03-23,61.82,61.90,59.61,60.16,50993800,60.16  
2006-03-22,62.16,63.25,61.27,61.67,48067700,61.67  
2006-03-21,64.29,64.34,61.39,61.81,47991700,61.81  
2006-03-20,65.22,65.46,63.87,63.99,21622900,63.99  
2006-03-17,64.75,65.54,64.11,64.66,29001500,64.66  
2006-03-16,66.85,66.90,64.30,64.31,26772800,64.31  
2006-03-15,67.71,68.04,65.52,66.23,31857000,66.23  
2006-03-14,65.77,67.32,65.50,67.32,22929300,67.32  
2006-03-13,65.05,66.28,64.79,65.68,30756700,65.68  
2006-03-10,64.05,64.49,62.45,63.19,37255100,63.19  
2006-03-09,65.98,66.47,63.81,63.93,28546600,63.93  
2006-03-08,66.29,67.20,65.35,65.66,23330400,65.66  
2006-03-07,65.76,66.90,65.08,66.31,31174200,66.31  
2006-03-06,67.69,67.72,64.94,65.48,32595200,65.48  
2006-03-03,69.40,69.91,67.53,67.72,26345300,67.72  
2006-03-02,68.99,69.99,68.67,69.61,22331200,69.61  
2006-03-01,68.84,69.49,68.02,69.10,27279200,69.10  
2006-02-28,71.58,72.40,68.10,68.49,45249300,68.49  
2006-02-27,71.99,72.12,70.65,70.99,28258600,70.99  
2006-02-24,72.14,72.89,71.20,71.46,19098000,71.46

2006-02-23,71.79,73.00,71.43,71.75,30604200,71.75  
2006-02-22,69.00,71.67,68.00,71.32,34937100,71.32  
2006-02-21,70.59,70.80,68.68,69.08,27843100,69.08  
2006-02-17,70.30,70.89,69.61,70.29,20571400,70.29  
2006-02-16,69.91,71.01,69.48,70.57,33863400,70.57  
2006-02-15,67.16,69.62,66.75,69.22,41420400,69.22  
2006-02-14,65.10,68.10,65.00,67.64,41462100,67.64  
2006-02-13,66.63,66.75,64.64,64.71,31553500,64.71  
2006-02-10,65.18,67.67,62.90,67.31,62874200,67.31  
2006-02-09,69.10,69.23,64.53,64.95,41063000,64.95  
2006-02-08,68.49,69.08,66.00,68.81,34039800,68.81  
2006-02-07,68.27,69.48,66.68,67.60,49601100,67.60  
2006-02-06,72.02,72.51,66.74,67.30,58991700,67.30  
2006-02-03,72.24,72.79,71.04,71.85,24718700,71.85  
2006-02-02,75.10,75.36,72.05,72.10,25261500,72.10  
2006-02-01,74.95,76.46,74.64,75.42,18613800,75.42  
2006-01-31,75.50,76.34,73.75,75.51,32626500,75.51  
2006-01-30,71.17,76.60,70.87,75.00,49942900,75.00  
2006-01-27,72.95,73.60,71.10,72.03,34066600,72.03  
2006-01-26,74.53,75.43,71.93,72.33,42192400,72.33  
2006-01-25,77.39,77.50,73.25,74.20,45563800,74.20  
2006-01-24,78.76,79.42,75.77,76.04,40794800,76.04  
2006-01-23,76.10,79.56,76.00,77.67,37847500,77.67  
2006-01-20,79.28,80.04,75.83,76.09,40527100,76.09  
2006-01-19,81.25,81.66,78.74,79.04,60566000,79.04  
2006-01-18,83.08,84.05,81.85,82.49,42879900,82.49  
2006-01-17,85.70,86.38,83.87,84.71,29843700,84.71  
2006-01-13,84.99,86.01,84.60,85.59,27725200,85.59  
2006-01-12,84.97,86.40,83.62,84.29,45743200,84.29  
2006-01-11,83.84,84.80,82.59,83.90,53349800,83.90  
2006-01-10,76.25,81.89,75.83,80.86,81423900,80.86  
2006-01-09,76.73,77.20,75.74,76.05,24108600,76.05  
2006-01-06,75.25,76.70,74.55,76.30,25159200,76.30  
2006-01-05,74.83,74.90,73.75,74.38,16050800,74.38  
2006-01-04,75.13,75.98,74.50,74.97,22128700,74.97  
2006-01-03,72.38,74.75,72.25,74.75,28829800,74.75  
2005-12-30,70.91,72.43,70.34,71.89,22295100,71.89  
2005-12-29,73.78,73.82,71.42,71.45,17500900,71.45  
2005-12-28,74.47,74.76,73.32,73.57,14218400,73.57  
2005-12-27,74.00,75.18,73.95,74.23,21092500,74.23  
2005-12-23,74.17,74.26,73.30,73.35,8209200,73.35  
2005-12-22,73.91,74.49,73.60,74.02,13236100,74.02  
2005-12-21,72.60,73.61,72.54,73.50,16990600,73.50  
2005-12-20,71.63,72.38,71.12,72.11,17111000,72.11  
2005-12-19,71.11,72.60,71.04,71.38,18903400,71.38  
2005-12-16,72.14,72.30,71.06,71.11,23970400,71.11  
2005-12-15,72.68,72.86,71.35,72.18,20041500,72.18  
2005-12-14,72.53,73.30,70.27,72.01,51811300,72.01

2005-12-13,74.85,75.46,74.21,74.98,17636300,74.98  
2005-12-12,74.87,75.35,74.56,74.91,18749800,74.91  
2005-12-09,74.21,74.59,73.35,74.33,19835800,74.33  
2005-12-08,73.20,74.17,72.60,74.08,28231500,74.08  
2005-12-07,74.23,74.46,73.12,73.95,24266600,73.95  
2005-12-06,73.93,74.83,73.35,74.05,30608200,74.05  
2005-12-05,71.95,72.53,71.49,71.82,20845400,71.82  
2005-12-02,72.27,72.74,70.70,72.63,31991500,72.63  
2005-12-01,68.95,71.73,68.81,71.60,29031900,71.60  
2005-11-30,68.43,68.85,67.52,67.82,21274100,67.82  
2005-11-29,69.99,70.30,67.35,68.10,31836900,68.10  
2005-11-28,70.72,71.07,69.07,69.66,36375700,69.66  
2005-11-25,67.66,69.54,67.50,69.34,14107600,69.34  
2005-11-23,66.88,67.98,66.69,67.11,17351900,67.11  
2005-11-22,64.84,66.76,64.52,66.52,19295800,66.52  
2005-11-21,64.82,65.19,63.72,64.96,18275400,64.96  
2005-11-18,65.31,65.43,64.37,64.56,18748700,64.56  
2005-11-17,65.59,65.88,64.25,64.52,24150200,64.52  
2005-11-16,63.15,65.06,63.09,64.95,28018400,64.95  
2005-11-15,61.60,63.08,61.46,62.28,19172900,62.28  
2005-11-14,61.54,61.98,60.91,61.45,13211900,61.45  
2005-11-11,61.54,62.11,61.34,61.54,15194600,61.54  
2005-11-10,60.64,61.20,59.01,61.18,23762300,61.18  
2005-11-09,60.00,61.21,60.00,60.11,19747500,60.11  
2005-11-08,59.95,60.38,59.10,59.90,16920200,59.90  
2005-11-07,60.85,61.67,60.14,60.23,22815400,60.23  
2005-11-04,60.35,61.24,59.62,61.15,31358400,61.15  
2005-11-03,60.26,62.32,60.07,61.85,31585100,61.85  
2005-11-02,57.72,60.00,57.60,59.95,30609300,59.95  
2005-11-01,57.24,58.14,56.87,57.50,26774500,57.50  
2005-10-31,55.20,57.98,54.75,57.59,33601600,57.59  
2005-10-28,56.04,56.43,54.17,54.47,27492400,54.47  
2005-10-27,56.99,57.01,55.41,55.41,14697900,55.41  
2005-10-26,56.28,57.56,55.92,57.03,22556900,57.03  
2005-10-25,56.40,56.85,55.69,56.10,16611700,56.10  
2005-10-24,55.25,56.79,55.09,56.79,21776900,56.79  
2005-10-21,56.84,56.98,55.36,55.66,28454500,55.66  
2005-10-20,54.47,56.50,54.35,56.14,48491500,56.14  
2005-10-19,52.07,54.96,51.21,54.94,36024400,54.94  
2005-10-18,53.25,53.95,52.20,52.21,21771000,52.21  
2005-10-17,53.98,54.23,52.68,53.44,22029800,53.44  
2005-10-14,54.03,54.35,52.79,54.00,36984000,54.00  
2005-10-13,49.44,53.95,49.27,53.74,66627700,53.74  
2005-10-12,48.65,50.30,47.87,49.25,96338800,49.25  
2005-10-11,51.23,51.87,50.40,51.59,43781600,51.59  
2005-10-10,51.76,51.91,50.28,50.37,18125200,50.37  
2005-10-07,51.72,51.93,50.55,51.30,24210100,51.30  
2005-10-06,53.20,53.49,50.87,51.70,27054900,51.70

2005-10-05,54.33,54.36,52.75,52.78,21813200,52.78  
2005-10-04,54.95,55.35,53.64,53.75,19266400,53.75  
2005-10-03,54.16,54.54,53.68,54.44,18126900,54.44  
2005-09-30,52.33,53.65,51.88,53.61,18986900,53.61  
2005-09-29,51.23,52.59,50.81,52.34,22744500,52.34  
2005-09-28,53.07,53.11,50.59,51.08,40198000,51.08  
2005-09-27,53.92,54.24,53.43,53.44,12203700,53.44  
2005-09-26,54.03,54.56,53.32,53.84,19520100,53.84  
2005-09-23,52.10,53.50,51.84,53.20,19944900,53.20  
2005-09-22,51.88,52.47,51.32,51.90,16561700,51.90  
2005-09-21,52.96,53.05,51.86,52.11,15526700,52.11  
2005-09-20,52.99,53.81,52.92,53.19,29279600,53.19  
2005-09-19,51.05,52.89,51.05,52.64,27990400,52.64  
2005-09-16,50.23,51.21,49.95,51.21,21107300,51.21  
2005-09-15,50.00,50.18,49.33,49.87,14827000,49.87  
2005-09-14,51.06,51.19,49.46,49.61,16943800,49.61  
2005-09-13,51.02,51.29,50.32,50.82,17603000,50.82  
2005-09-12,51.10,51.63,50.58,51.40,16171300,51.40  
2005-09-09,50.07,51.35,49.79,51.31,21987200,51.31  
2005-09-08,49.35,50.12,49.14,49.78,25094300,49.78  
2005-09-07,49.05,49.40,47.92,48.68,34395500,48.68  
2005-09-06,46.70,48.88,46.55,48.80,29236400,48.80  
2005-09-02,46.30,46.80,46.12,46.22,7942100,46.22  
2005-09-01,47.00,47.17,46.09,46.26,12727400,46.26  
2005-08-31,46.86,47.03,46.27,46.89,14391300,46.89  
2005-08-30,45.99,46.79,45.92,46.57,18527200,46.57  
2005-08-29,45.27,46.03,45.26,45.84,9153400,45.84  
2005-08-26,46.12,46.34,45.36,45.74,9323500,45.74  
2005-08-25,46.12,46.49,45.81,46.06,9866200,46.06  
2005-08-24,45.60,47.12,45.59,45.77,20431100,45.77  
2005-08-23,45.85,46.10,45.32,45.74,10557300,45.74  
2005-08-22,46.15,46.75,45.26,45.87,13847600,45.87  
2005-08-19,46.28,46.70,45.77,45.83,13448900,45.83  
2005-08-18,46.91,47.00,45.75,46.30,15805700,46.30  
2005-08-17,46.40,47.44,46.37,47.15,17847300,47.15  
2005-08-16,47.39,47.50,46.21,46.25,19200800,46.25  
2005-08-15,46.48,48.33,46.45,47.68,38811700,47.68  
2005-08-12,43.46,46.22,43.36,46.10,32715600,46.10  
2005-08-11,43.39,44.12,43.25,44.00,9713700,44.00  
2005-08-10,44.00,44.39,43.31,43.38,12890900,43.38  
2005-08-09,42.93,43.89,42.91,43.82,13601400,43.82  
2005-08-08,43.00,43.25,42.61,42.65,6299400,42.65  
2005-08-05,42.49,43.36,42.02,42.99,8640400,42.99  
2005-08-04,42.89,43.00,42.29,42.71,9618000,42.71  
2005-08-03,43.19,43.31,42.77,43.22,9225800,43.22  
2005-08-02,42.89,43.50,42.61,43.19,10602700,43.19  
2005-08-01,42.57,43.08,42.08,42.75,11223200,42.75  
2005-07-29,43.56,44.38,42.26,42.65,20074300,42.65



2005-07-28,43.85,44.00,43.30,43.80,8975400,43.80  
2005-07-27,43.83,44.07,42.67,43.99,10133900,43.99  
2005-07-26,44.01,44.11,43.36,43.63,9592600,43.63  
2005-07-25,43.99,44.28,43.73,43.81,10522400,43.81  
2005-07-22,43.44,44.00,43.39,44.00,10753800,44.00  
2005-07-21,43.70,44.04,42.90,43.29,14438000,43.29  
2005-07-20,42.86,43.80,42.65,43.63,16192700,43.63  
2005-07-19,41.52,43.23,41.07,43.19,23966500,43.19  
2005-07-18,41.41,42.10,41.37,41.49,20939200,41.49  
2005-07-15,40.97,41.57,40.46,41.55,24560100,41.55  
2005-07-14,40.79,42.01,40.23,40.75,74859300,40.75  
2005-07-13,38.29,38.50,37.90,38.35,24458400,38.35  
2005-07-12,38.23,38.40,37.91,38.24,13822800,38.24  
2005-07-11,38.37,38.65,37.78,38.10,13885300,38.10  
2005-07-08,37.87,38.28,37.47,38.25,10383400,38.25  
2005-07-07,36.81,37.76,36.80,37.63,13704400,37.63  
2005-07-06,37.71,38.16,37.20,37.39,14093800,37.39  
2005-07-05,36.55,38.15,36.50,37.98,16223900,37.98  
2005-07-01,36.83,36.97,36.29,36.50,8928600,36.50  
2005-06-30,36.61,37.16,36.31,36.81,14942500,36.81  
2005-06-29,37.23,37.29,36.12,36.37,16012800,36.37  
2005-06-28,37.49,37.59,37.17,37.31,12510700,37.31  
2005-06-27,36.84,38.10,36.68,37.10,21434700,37.10  
2005-06-24,39.09,39.12,37.68,37.76,14668200,37.76  
2005-06-23,38.83,39.78,38.65,38.89,24080500,38.89  
2005-06-22,38.26,38.60,38.14,38.55,15175900,38.55  
2005-06-21,37.72,38.19,37.38,37.86,13233100,37.86  
2005-06-20,37.85,38.09,37.45,37.61,11561300,37.61  
2005-06-17,38.47,38.54,37.83,38.31,21290200,38.31  
2005-06-16,37.19,38.08,36.82,37.98,19559800,37.98  
2005-06-15,36.87,37.30,36.30,37.13,20119400,37.13  
2005-06-14,35.92,36.15,35.75,36.00,12423100,36.00  
2005-06-13,35.89,36.61,35.82,35.90,15563300,35.90  
2005-06-10,37.40,37.40,35.52,35.81,24247600,35.81  
2005-06-09,37.00,37.94,36.82,37.65,13937700,37.65  
2005-06-08,36.63,37.25,36.57,36.92,14428800,36.92  
2005-06-07,37.60,37.73,36.45,36.54,26616600,36.54  
2005-06-06,38.33,38.63,37.56,37.92,28998800,37.92  
2005-06-03,38.16,38.58,37.77,38.24,34173900,38.24  
2005-06-02,40.05,40.32,39.60,40.04,13356200,40.04  
2005-06-01,39.89,40.76,39.86,40.30,16207600,40.30  
2005-05-31,40.66,40.74,39.58,39.76,14435900,39.76  
2005-05-27,40.64,40.79,40.01,40.56,11286000,40.56  
2005-05-26,39.94,40.94,39.94,40.74,18768600,40.74  
2005-05-25,39.50,39.95,39.32,39.78,14143100,39.78  
2005-05-24,39.45,39.99,39.03,39.70,21195000,39.70  
2005-05-23,37.85,39.90,37.85,39.76,37234800,39.76  
2005-05-20,37.25,37.65,37.19,37.55,16166100,37.55

2005-05-19,35.78,37.68,35.78,37.55,28327200,37.55  
2005-05-18,35.45,37.56,34.99,35.84,22740100,35.84  
2005-05-17,35.14,35.46,34.54,35.36,21012300,35.36  
2005-05-16,34.56,35.70,34.53,35.55,16939100,35.55  
2005-05-13,34.20,35.23,34.07,34.77,25096900,34.77  
2005-05-12,35.42,35.59,34.00,34.13,34651500,34.13  
2005-05-11,35.20,35.67,33.11,35.61,72927900,35.61  
2005-05-10,36.75,37.25,36.33,36.42,15723700,36.42  
2005-05-09,37.28,37.45,36.75,36.97,12703400,36.97  
2005-05-06,36.89,37.33,36.79,37.24,11651700,37.24  
2005-05-05,37.25,37.27,36.47,36.68,13834500,36.68  
2005-05-04,36.11,37.20,36.10,37.15,16006300,37.15  
2005-05-03,36.40,36.74,36.03,36.21,17740700,36.21  
2005-05-02,36.21,36.65,36.02,36.43,16640000,36.43  
2005-04-29,36.15,36.23,35.22,36.06,23986800,36.06  
2005-04-28,36.29,36.34,35.24,35.54,20539500,35.54  
2005-04-27,35.89,36.36,35.51,35.95,21924600,35.95  
2005-04-26,36.78,37.51,36.12,36.19,28946700,36.19  
2005-04-25,36.49,37.02,36.11,36.98,26659300,36.98  
2005-04-22,36.84,37.00,34.90,35.50,29968900,35.50  
2005-04-21,36.40,37.21,35.90,37.18,27128300,37.18  
2005-04-20,37.66,37.74,35.44,35.51,33754700,35.51  
2005-04-19,36.60,37.44,35.87,37.09,38630100,37.09  
2005-04-18,35.00,36.30,34.00,35.62,47399200,35.62  
2005-04-15,36.62,37.25,35.28,35.35,61717400,35.35  
2005-04-14,38.81,39.56,36.84,37.26,98328300,37.26  
2005-04-13,42.95,42.99,40.39,41.04,48998100,41.04  
2005-04-12,42.49,43.19,42.01,42.66,35037900,42.66  
2005-04-11,44.15,44.25,41.91,41.92,29345100,41.92  
2005-04-08,43.70,44.45,43.54,43.74,23212500,43.74  
2005-04-07,42.33,43.75,42.25,43.56,18106700,43.56  
2005-04-06,42.40,42.81,42.15,42.33,14815200,42.33  
2005-04-05,41.22,42.24,41.09,41.89,19865700,41.89  
2005-04-04,40.99,41.31,40.16,41.09,20714800,41.09  
2005-04-01,42.09,42.18,40.57,40.89,22903000,40.89  
2005-03-31,42.45,42.52,41.59,41.67,22719100,41.67  
2005-03-30,42.07,42.80,41.82,42.80,14105700,42.80  
2005-03-29,42.56,42.83,41.50,41.75,16477000,41.75  
2005-03-28,42.75,42.96,42.47,42.53,9836100,42.53  
2005-03-24,42.91,43.00,42.50,42.50,12596600,42.50  
2005-03-23,42.45,43.40,42.02,42.55,21779400,42.55  
2005-03-22,43.71,43.96,42.68,42.83,19693400,42.83  
2005-03-21,43.29,43.97,42.86,43.70,19326000,43.70  
2005-03-18,43.33,43.44,42.50,42.96,33576800,42.96  
2005-03-17,41.53,42.88,41.32,42.25,28640000,42.25  
2005-03-16,41.21,42.31,40.78,41.18,24921900,41.18  
2005-03-15,40.64,41.14,40.25,40.96,18164600,40.96  
2005-03-14,40.52,40.79,39.52,40.32,21620900,40.32

2005-03-11,40.21,40.59,39.80,40.27,22601100,40.27  
2005-03-10,39.53,40.26,39.10,39.83,27753900,39.83  
2005-03-09,39.64,40.28,38.83,39.35,47230900,39.35  
2005-03-08,41.90,42.16,40.10,40.53,36480400,40.53  
2005-03-07,42.80,43.25,42.35,42.75,16094000,42.75  
2005-03-04,42.76,43.01,41.85,42.81,27022100,42.81  
2005-03-03,44.37,44.41,41.22,41.79,50416200,41.79  
2005-03-02,44.25,44.89,44.08,44.12,16362900,44.12  
2005-03-01,44.99,45.11,44.16,44.50,16721000,44.50  
2005-02-28,44.68,45.14,43.96,44.86,23271800,44.86  
2005-02-25,89.62,89.91,88.19,88.99,32696800,44.49  
2005-02-24,88.48,89.31,87.73,88.93,54251000,44.47  
2005-02-23,86.72,88.45,85.55,88.23,48042200,44.12  
2005-02-22,86.30,88.30,85.29,85.29,43546200,42.65  
2005-02-18,87.74,87.86,86.25,86.81,41544800,43.40  
2005-02-17,90.65,90.88,87.45,87.81,54231200,43.90  
2005-02-16,88.15,90.20,87.35,90.13,58544400,45.06  
2005-02-15,86.66,89.08,86.00,88.41,82579200,44.21  
2005-02-14,82.73,84.79,82.05,84.63,45409400,42.31  
2005-02-11,79.86,81.76,78.94,81.21,42894800,40.60  
2005-02-10,78.72,79.28,76.66,78.36,39036400,39.18  
2005-02-09,81.04,81.99,78.10,78.74,42552000,39.37  
2005-02-08,79.07,81.38,78.79,80.90,31786400,40.45  
2005-02-07,78.93,79.35,77.50,78.94,18730600,39.47  
2005-02-04,77.87,78.93,77.53,78.84,20127000,39.42  
2005-02-03,79.10,79.43,77.33,77.81,26130400,38.90  
2005-02-02,77.95,79.91,77.69,79.63,36430800,39.81  
2005-02-01,77.05,77.77,76.58,77.53,24228400,38.76  
2005-01-31,74.58,77.89,74.51,76.90,60039200,38.45  
2005-01-28,72.62,73.98,72.44,73.98,28629000,36.99  
2005-01-27,72.16,72.92,71.55,72.64,17722400,36.32  
2005-01-26,72.66,72.75,71.22,72.25,26410600,36.12  
2005-01-25,71.37,72.84,70.94,72.05,34615400,36.03  
2005-01-24,70.98,71.78,70.55,70.76,30058200,35.38  
2005-01-21,71.31,71.60,70.00,70.49,32547600,35.24  
2005-01-20,69.65,71.27,69.47,70.46,32675800,35.23  
2005-01-19,70.49,71.46,69.75,69.88,26853400,34.94  
2005-01-18,69.85,70.70,67.75,70.65,35945000,35.33  
2005-01-14,70.25,71.72,69.19,70.20,63240800,35.10  
2005-01-13,73.71,74.42,69.73,69.80,113025600,34.90  
2005-01-12,65.45,65.90,63.30,65.46,68560800,32.73  
2005-01-11,68.25,69.15,64.14,64.56,93272400,32.28  
2005-01-10,69.83,70.70,67.88,68.96,61618200,34.48  
2005-01-07,65.00,69.63,64.75,69.25,79551800,34.62  
2005-01-06,64.67,64.91,63.33,64.55,25198400,32.28  
2005-01-05,64.46,65.25,64.05,64.50,24301200,32.25  
2005-01-04,63.79,65.47,62.97,63.94,39171800,31.97  
2005-01-03,64.78,65.11,62.60,63.29,24714000,31.65

2004-12-31,64.89,65.00,64.03,64.40,9949600,32.20  
2004-12-30,64.81,65.03,64.22,64.80,12333600,32.40  
2004-12-29,63.81,64.98,63.57,64.44,16055800,32.22  
2004-12-28,63.30,64.25,62.05,64.18,21848400,32.09  
2004-12-27,64.80,65.15,62.88,63.16,19981800,31.58  
2004-12-23,63.75,64.25,63.60,64.01,8783200,32.01  
2004-12-22,63.66,64.36,63.40,63.75,20208200,31.88  
2004-12-21,63.56,63.77,61.60,63.69,38014800,31.84  
2004-12-20,65.47,66.00,61.76,62.72,41718800,31.36  
2004-12-17,66.84,67.04,64.90,64.99,27982000,32.49  
2004-12-16,66.15,67.50,66.05,66.60,40218400,33.30  
2004-12-15,65.24,65.46,64.66,65.26,14227200,32.63  
2004-12-14,65.40,65.88,65.02,65.29,14847200,32.65  
2004-12-13,65.62,65.90,64.60,64.91,14108600,32.46  
2004-12-10,65.03,66.05,64.70,65.15,27706200,32.58  
2004-12-09,62.81,64.40,62.07,63.99,26482200,32.00  
2004-12-08,63.08,64.43,62.05,63.28,24710800,31.64  
2004-12-07,65.93,66.73,62.56,62.89,37746400,31.44  
2004-12-06,64.25,66.24,62.95,65.78,44568600,32.89  
2004-12-03,64.53,65.00,61.75,62.68,44244600,31.34  
2004-12-02,66.13,66.90,64.66,65.21,35265800,32.60  
2004-12-01,67.79,67.95,66.27,67.79,28591200,33.90  
2004-11-30,68.79,68.79,67.05,67.05,36732800,33.53  
2004-11-29,68.95,69.57,67.41,68.44,61175600,34.22  
2004-11-26,65.35,65.76,64.34,64.55,19648000,32.28  
2004-11-24,61.69,65.20,61.55,64.05,49671000,32.03  
2004-11-23,62.30,62.45,61.05,61.27,32551800,30.64  
2004-11-22,61.80,64.00,57.90,61.35,91721800,30.67  
2004-11-19,55.49,56.91,54.50,55.17,27331400,27.58  
2004-11-18,54.30,55.45,54.29,55.39,16398200,27.69  
2004-11-17,55.19,55.45,54.22,54.90,14205400,27.45  
2004-11-16,55.16,55.20,54.48,54.94,10539400,27.47  
2004-11-15,55.20,55.46,54.34,55.24,13430200,27.62  
2004-11-12,55.01,55.69,54.84,55.50,14132200,27.75  
2004-11-11,54.95,55.43,54.23,55.30,14546400,27.65  
2004-11-10,53.95,55.39,53.91,54.75,18167000,27.38  
2004-11-09,54.23,54.55,53.38,54.05,16991600,27.02  
2004-11-08,54.27,55.45,53.86,54.38,18818600,27.19  
2004-11-05,54.86,55.00,52.04,54.72,43037400,27.36  
2004-11-04,55.03,55.55,54.37,54.45,33165200,27.23  
2004-11-03,54.37,56.11,53.99,55.31,43006200,27.66  
2004-11-02,52.40,54.08,52.40,53.50,26071000,26.75  
2004-11-01,52.50,53.26,52.04,52.45,21501800,26.23  
2004-10-29,51.84,53.20,51.80,52.40,28936400,26.20  
2004-10-28,49.98,52.22,49.50,52.19,30866600,26.09  
2004-10-27,48.51,50.62,48.17,50.30,42624800,25.15  
2004-10-26,47.45,48.05,46.97,47.97,21227200,23.99  
2004-10-25,47.20,47.84,47.07,47.55,14023000,23.77

2004-10-22,47.54,47.67,47.02,47.41,17252400,23.70  
2004-10-21,47.48,48.13,47.36,47.94,25875200,23.97  
2004-10-20,47.18,47.60,46.65,47.47,21611000,23.74  
2004-10-19,48.10,48.35,47.31,47.42,28642600,23.71  
2004-10-18,44.70,47.75,44.70,47.75,42884000,23.88  
2004-10-15,44.88,45.61,44.19,45.50,36826000,22.75  
2004-10-14,43.19,45.75,42.55,44.98,98872400,22.49  
2004-10-13,38.87,39.76,38.74,39.75,41536000,19.88  
2004-10-12,38.50,38.58,37.65,38.29,16435400,19.15  
2004-10-11,38.80,39.06,38.20,38.59,11566800,19.30  
2004-10-08,39.56,39.77,38.84,39.06,12829600,19.53  
2004-10-07,40.54,40.93,39.46,39.62,15219600,19.81  
2004-10-06,39.50,40.76,39.47,40.64,15939400,20.32  
2004-10-05,38.56,39.67,38.40,39.37,14505800,19.68  
2004-10-04,39.18,39.18,38.75,38.79,20503000,19.40  
2004-10-01,39.12,39.19,38.58,38.67,16621600,19.33  
2004-09-30,39.00,39.27,38.45,38.75,15179000,19.38  
2004-09-29,37.93,38.86,37.82,38.68,9768200,19.34  
2004-09-28,37.46,38.29,37.45,38.04,12613800,19.02  
2004-09-27,36.95,37.98,36.83,37.53,14197000,18.76  
2004-09-24,37.45,38.00,37.15,37.29,13196000,18.65  
2004-09-23,37.04,37.50,36.93,37.27,14193000,18.64  
2004-09-22,38.10,38.14,36.81,36.92,14346000,18.46  
2004-09-21,37.75,38.87,37.46,38.01,13809000,19.00  
2004-09-20,36.88,37.98,36.87,37.71,8750000,18.85  
2004-09-17,36.55,37.38,36.40,37.14,17939600,18.57  
2004-09-16,35.20,36.76,35.08,36.35,17925600,18.17  
2004-09-15,35.36,35.48,34.80,35.20,8309600,17.60  
2004-09-14,35.24,35.55,34.78,35.49,9100800,17.75  
2004-09-13,35.88,36.07,35.32,35.59,10070600,17.80  
2004-09-10,35.66,36.23,35.46,35.87,11714800,17.93  
2004-09-09,36.10,36.30,35.28,35.70,16476400,17.85  
2004-09-08,35.70,36.57,35.68,36.35,12268800,18.17  
2004-09-07,35.40,36.19,35.23,35.76,10784200,17.88  
2004-09-03,35.01,35.92,35.01,35.23,10481000,17.61  
2004-09-02,35.50,35.81,34.83,35.66,14511600,17.83  
2004-09-01,34.30,35.99,34.19,35.86,18418800,17.93  
2004-08-31,34.07,34.95,34.00,34.49,13448600,17.25  
2004-08-30,34.00,34.72,33.96,34.12,7790800,17.06  
2004-08-27,34.68,34.76,34.00,34.35,13886200,17.17  
2004-08-26,33.04,35.18,32.74,34.66,34137800,17.33  
2004-08-25,31.87,33.15,31.73,33.05,18057800,16.52  
2004-08-24,31.26,31.95,31.19,31.95,13362000,15.98  
2004-08-23,30.86,31.27,30.60,31.08,9095000,15.54  
2004-08-20,30.71,30.99,30.49,30.80,11313600,15.40  
2004-08-19,31.51,31.86,30.36,30.71,13890000,15.35  
2004-08-18,30.51,31.85,30.49,31.74,13023400,15.87  
2004-08-17,30.58,31.13,30.35,30.87,11536400,15.44

2004-08-16,31.00,31.72,30.64,30.78,15559800,15.39  
2004-08-13,30.60,31.28,30.40,30.84,11716000,15.42  
2004-08-12,30.45,30.85,30.28,30.37,8078600,15.19  
2004-08-11,31.10,31.13,30.26,31.01,11514000,15.51  
2004-08-10,30.39,31.54,30.35,31.52,12537000,15.76  
2004-08-09,29.85,30.45,29.81,30.30,10387400,15.15  
2004-08-06,30.90,31.10,29.70,29.78,17581800,14.89  
2004-08-05,31.81,32.30,31.25,31.39,8732200,15.69  
2004-08-04,31.19,32.12,31.17,31.79,9874600,15.90  
2004-08-03,31.45,31.72,31.15,31.29,7558200,15.65  
2004-08-02,31.18,32.20,31.13,31.58,13039000,15.79  
2004-07-30,32.65,33.00,32.00,32.34,8679400,16.17  
2004-07-29,32.47,32.82,32.13,32.64,7934200,16.32  
2004-07-28,32.31,32.41,31.16,32.27,10180400,16.14  
2004-07-27,31.80,32.75,31.57,32.43,15178800,16.22  
2004-07-26,30.85,31.45,30.78,31.26,14069000,15.63  
2004-07-23,31.53,31.75,30.48,30.70,9770400,15.35  
2004-07-22,31.25,31.73,31.06,31.68,11932800,15.84  
2004-07-21,32.42,32.71,31.34,31.62,10759200,15.81  
2004-07-20,31.95,32.20,31.55,32.20,11562400,16.10  
2004-07-19,32.01,32.22,31.66,31.97,19041800,15.98  
2004-07-16,32.80,32.92,32.12,32.20,17442200,16.10  
2004-07-15,32.66,33.63,32.11,32.93,63133000,16.47  
2004-07-14,28.86,29.97,28.74,29.58,29850000,14.79  
2004-07-13,29.25,29.60,29.02,29.22,11292000,14.61  
2004-07-12,30.02,30.04,28.93,29.14,18272200,14.57  
2004-07-09,30.27,30.50,30.03,30.03,7459400,15.02  
2004-07-08,30.13,30.68,29.95,30.14,8335000,15.07  
2004-07-07,30.85,31.36,30.13,30.39,14214000,15.19  
2004-07-06,31.27,31.42,30.80,30.95,12463600,15.48  
2004-07-02,30.48,31.18,29.73,31.08,32524400,15.54  
2004-07-01,32.10,32.48,31.90,32.30,12212200,16.15  
2004-06-30,32.56,32.97,31.89,32.54,13323000,16.27  
2004-06-29,32.07,32.99,31.41,32.50,21091200,16.25  
2004-06-28,34.18,34.19,32.21,32.49,18610600,16.25  
2004-06-25,33.07,33.70,33.00,33.70,11551000,16.85  
2004-06-24,33.51,33.70,32.98,33.18,9018400,16.59  
2004-06-23,33.00,33.83,32.89,33.70,13959600,16.85  
2004-06-22,32.30,33.09,32.29,33.00,12875400,16.50  
2004-06-21,33.12,33.50,32.12,32.33,13936200,16.17  
2004-06-18,32.66,33.41,32.43,32.91,14509000,16.45  
2004-06-17,32.56,33.13,32.21,32.81,19690000,16.41  
2004-06-16,30.66,33.32,30.53,32.74,32487200,16.37  
2004-06-15,30.54,31.14,30.26,30.69,15879800,15.35  
2004-06-14,30.65,30.68,29.50,30.12,8713800,15.06  
2004-06-10,30.20,30.97,30.20,30.74,9199200,15.37  
2004-06-09,30.09,30.71,30.00,30.20,12471600,15.10  
2004-06-08,29.99,30.44,29.83,30.35,14843600,15.18

2004-06-07,29.04,29.98,28.81,29.81,10567000,14.90  
2004-06-04,28.56,29.25,28.51,28.78,14254000,14.39  
2004-06-03,28.72,28.99,28.29,28.40,8961800,14.20  
2004-06-02,28.03,29.17,27.80,28.92,11382600,14.46  
2004-06-01,27.79,28.20,27.61,28.06,6504800,14.03  
2004-05-28,28.08,28.27,27.80,28.06,5204200,14.03  
2004-05-27,28.46,28.60,27.82,28.17,8427600,14.09  
2004-05-26,28.33,28.78,28.00,28.51,11506000,14.26  
2004-05-25,27.50,28.51,27.29,28.41,11427800,14.20  
2004-05-24,27.29,27.90,27.11,27.34,8414400,13.67  
2004-05-21,26.90,27.20,26.73,27.11,6424800,13.56  
2004-05-20,26.63,27.00,26.47,26.71,7010600,13.35  
2004-05-19,27.40,27.50,26.42,26.47,13414000,13.23  
2004-05-18,26.97,27.29,26.80,27.06,7359400,13.53  
2004-05-17,26.70,27.06,26.36,26.64,10730200,13.32  
2004-05-14,27.25,27.32,26.45,27.06,9207200,13.53  
2004-05-13,27.10,27.72,26.90,27.19,8209000,13.60  
2004-05-12,26.79,27.34,26.24,27.30,8765000,13.65  
2004-05-11,26.40,27.19,26.40,27.14,10899000,13.57  
2004-05-10,26.27,26.60,25.94,26.28,8927800,13.14  
2004-05-07,26.55,27.57,26.55,26.67,14965600,13.34  
2004-05-06,26.40,26.75,25.90,26.58,9412800,13.29  
2004-05-05,26.20,26.75,25.96,26.65,8503800,13.32  
2004-05-04,25.97,26.55,25.50,26.14,9999400,13.07  
2004-05-03,26.00,26.33,25.74,26.07,10629800,13.03  
2004-04-30,26.71,26.96,25.49,25.78,16660800,12.89  
2004-04-29,26.45,27.00,25.98,26.77,16456800,13.39  
2004-04-28,26.82,27.01,26.34,26.45,8256000,13.23  
2004-04-27,27.24,27.44,26.69,26.94,10138000,13.47  
2004-04-26,27.58,27.64,27.00,27.13,8254600,13.56  
2004-04-23,27.70,28.00,27.05,27.70,11279600,13.85  
2004-04-22,27.56,28.18,27.11,27.78,12306600,13.89  
2004-04-21,27.60,28.12,27.37,27.73,11638400,13.86  
2004-04-20,28.21,28.41,27.56,27.73,12661400,13.86  
2004-04-19,28.12,28.75,27.83,28.35,25441200,14.18  
2004-04-16,29.15,29.31,28.50,29.18,14390400,14.59  
2004-04-15,28.82,29.58,28.16,29.30,62908800,14.65  
2004-04-14,26.74,27.07,26.31,26.64,22847600,13.32  
2004-04-13,27.98,28.03,26.84,26.93,15585600,13.47  
2004-04-12,27.50,28.10,27.49,28.04,8233600,14.02  
2004-04-08,27.88,28.00,27.20,27.53,8604200,13.77  
2004-04-07,27.61,27.70,26.92,27.31,9111400,13.65  
2004-04-06,27.71,28.15,27.43,27.83,9214000,13.91  
2004-04-05,27.48,28.37,27.44,28.32,13774000,14.16  
2004-04-02,27.75,27.93,27.23,27.50,9802800,13.75  
2004-04-01,26.89,27.27,26.62,27.11,11369000,13.56  
2004-03-31,27.92,27.98,26.95,27.04,13956200,13.52  
2004-03-30,27.74,27.95,27.34,27.92,12845600,13.96

2004-03-29,27.37,27.99,27.20,27.91,12526000,13.95  
2004-03-26,27.00,27.36,26.91,27.04,14996200,13.52  
2004-03-25,26.14,26.91,25.89,26.87,20230200,13.44  
2004-03-24,25.27,25.75,25.27,25.50,15293400,12.75  
2004-03-23,25.88,26.00,25.22,25.29,13768400,12.65  
2004-03-22,25.37,26.17,25.25,25.86,14965400,12.93  
2004-03-19,25.56,26.94,25.54,25.86,14592000,12.93  
2004-03-18,25.94,26.06,25.59,25.67,11467200,12.84  
2004-03-17,25.96,26.38,25.78,26.19,14694000,13.10  
2004-03-16,26.55,26.61,25.39,25.82,21622600,12.91  
2004-03-15,27.03,27.35,26.26,26.45,17204200,13.23  
2004-03-12,27.32,27.78,27.17,27.56,11758000,13.78  
2004-03-11,27.27,28.04,27.09,27.15,21280400,13.57  
2004-03-10,27.04,28.14,26.94,27.68,35963000,13.84  
2004-03-09,25.90,27.23,25.75,27.10,22084400,13.55  
2004-03-08,26.62,26.79,25.80,26.00,18674000,13.00  
2004-03-05,24.95,27.49,24.90,26.74,55021400,13.37  
2004-03-04,23.93,25.22,23.91,25.16,23579400,12.58  
2004-03-03,23.60,24.19,23.60,23.92,8040400,11.96  
2004-03-02,24.00,24.10,23.77,23.81,9167400,11.90  
2004-03-01,24.10,24.30,23.87,24.02,11488600,12.01  
2004-02-27,22.96,24.02,22.95,23.92,16744200,11.96  
2004-02-26,22.88,23.18,22.80,23.04,7086000,11.52  
2004-02-25,22.28,22.90,22.21,22.81,9867000,11.40  
2004-02-24,22.14,22.74,22.00,22.36,9252000,11.18  
2004-02-23,22.34,22.46,21.89,22.19,6931400,11.10  
2004-02-20,22.50,22.51,22.21,22.40,9914400,11.20  
2004-02-19,23.33,23.64,22.41,22.47,11538600,11.23  
2004-02-18,23.18,23.44,23.05,23.26,5058400,11.63  
2004-02-17,23.10,23.49,23.10,23.16,6105600,11.58  
2004-02-13,23.85,24.10,22.83,23.00,11285000,11.50  
2004-02-12,23.61,23.99,23.60,23.73,6571000,11.86  
2004-02-11,23.09,23.87,23.05,23.80,12448000,11.90  
2004-02-10,22.62,23.12,22.44,22.98,9119400,11.49  
2004-02-09,22.62,22.86,22.50,22.67,6723600,11.34  
2004-02-06,22.45,22.89,22.40,22.71,6905000,11.35  
2004-02-05,21.82,22.91,21.81,22.42,12601600,11.21  
2004-02-04,22.00,22.09,21.70,21.79,10912600,10.90  
2004-02-03,22.30,22.40,22.00,22.26,6457600,11.13  
2004-02-02,22.46,22.81,22.08,22.32,10265400,11.16  
2004-01-30,22.65,22.87,22.42,22.56,6617800,11.28  
2004-01-29,22.63,22.80,22.19,22.68,7596400,11.34  
2004-01-28,22.84,23.38,22.41,22.52,9835800,11.26  
2004-01-27,23.04,23.25,22.80,23.07,10966800,11.53  
2004-01-26,22.46,23.06,22.43,23.01,9688200,11.51  
2004-01-23,22.42,22.74,22.25,22.56,8113200,11.28  
2004-01-22,22.56,22.83,22.18,22.18,7321600,11.09  
2004-01-21,22.70,22.97,22.43,22.61,8095000,11.31



2004-01-20,22.67,22.80,22.25,22.73,11283800,11.36  
2004-01-16,22.89,23.04,22.61,22.72,13315000,11.36  
2004-01-15,22.91,23.40,22.50,22.85,36364600,11.43  
2004-01-14,24.40,24.54,23.78,24.20,22144400,12.10  
2004-01-13,24.70,24.84,23.86,24.12,24250600,12.06  
2004-01-12,23.25,24.00,23.10,23.73,17412400,11.86  
2004-01-09,23.23,24.13,22.79,23.00,15266400,11.50  
2004-01-08,22.84,23.73,22.65,23.36,16439400,11.68  
2004-01-07,22.10,22.83,21.93,22.59,20959800,11.30  
2004-01-06,22.25,22.42,21.71,22.09,18191000,11.05  
2004-01-05,21.42,22.39,21.42,22.17,14107800,11.09  
2004-01-02,21.55,21.75,21.18,21.28,5165800,10.64  
2003-12-31,21.35,21.53,21.18,21.37,6230400,10.69  
2003-12-30,21.18,21.50,21.15,21.28,7316200,10.64  
2003-12-29,20.91,21.16,20.86,21.15,8337800,10.57  
2003-12-26,20.35,20.91,20.34,20.78,3703400,10.39  
2003-12-24,19.72,20.59,19.65,20.41,6338400,10.20  
2003-12-23,19.92,19.95,19.60,19.81,11017800,9.90  
2003-12-22,19.65,19.89,19.25,19.85,13466600,9.93  
2003-12-19,20.19,20.42,19.62,19.70,16198600,9.85  
2003-12-18,19.90,20.18,19.90,20.04,11818400,10.02  
2003-12-17,20.08,20.13,19.79,19.88,9795000,9.94  
2003-12-16,20.19,20.49,20.01,20.12,13355600,10.06  
2003-12-15,21.49,21.49,20.07,20.17,13889600,10.09  
2003-12-12,21.32,21.32,20.70,20.89,6881200,10.44  
2003-12-11,20.25,21.34,20.21,21.21,6540600,10.60  
2003-12-10,20.45,20.61,19.96,20.38,9690600,10.19  
2003-12-09,21.17,21.25,20.40,20.45,4826600,10.23  
2003-12-08,20.78,21.08,20.41,21.05,5294200,10.52  
2003-12-05,20.90,21.15,20.73,20.85,6649200,10.43  
2003-12-04,20.94,21.17,20.77,21.15,6355000,10.57  
2003-12-03,21.54,21.84,20.96,21.03,6832000,10.52  
2003-12-02,21.60,21.90,21.41,21.54,7332000,10.77  
2003-12-01,21.04,21.85,21.00,21.71,12912000,10.85  
2003-11-28,20.78,21.07,20.52,20.91,2717800,10.45  
2003-11-26,20.89,21.15,20.25,20.72,8754600,10.36  
2003-11-25,21.23,21.25,20.61,20.68,9594800,10.34  
2003-11-24,20.50,21.27,20.45,21.15,13636600,10.57  
2003-11-21,20.34,20.58,19.85,20.28,8637000,10.14  
2003-11-20,20.10,21.08,20.10,20.38,8556800,10.19  
2003-11-19,20.56,20.65,20.26,20.42,12306600,10.21  
2003-11-18,21.21,21.34,20.35,20.41,9542600,10.20  
2003-11-17,21.35,21.37,20.95,21.13,8152000,10.56  
2003-11-14,22.48,22.61,21.28,21.46,8466000,10.73  
2003-11-13,22.07,22.56,21.92,22.42,7599000,11.21  
2003-11-12,21.48,22.72,21.48,22.33,10714400,11.16  
2003-11-11,21.90,22.02,21.48,21.54,7681200,10.77  
2003-11-10,22.45,22.65,21.84,21.90,8367000,10.95

2003-11-07,23.19,23.24,22.45,22.50,7505200,11.25  
2003-11-06,22.91,23.15,22.65,23.12,14181200,11.56  
2003-11-05,22.82,23.13,22.47,23.03,11516800,11.52  
2003-11-04,23.07,23.10,22.59,22.91,8901200,11.45  
2003-11-03,22.83,23.30,22.78,23.15,10815800,11.57  
2003-10-31,23.30,23.35,22.78,22.89,7791200,11.44  
2003-10-30,23.99,24.00,22.87,23.09,9305600,11.55  
2003-10-29,23.51,23.90,23.34,23.69,9538600,11.85  
2003-10-28,22.56,23.77,22.40,23.72,8989800,11.86  
2003-10-27,22.75,22.89,22.49,22.60,5786200,11.30  
2003-10-24,22.56,22.85,22.23,22.60,7852000,11.30  
2003-10-23,22.73,23.15,22.59,22.99,5900400,11.49  
2003-10-22,22.94,23.20,22.68,22.76,5771400,11.38  
2003-10-21,23.31,23.40,22.75,23.18,6302200,11.59  
2003-10-20,22.60,23.34,22.38,23.22,9969000,11.61  
2003-10-17,23.38,23.49,22.43,22.75,12850400,11.38  
2003-10-16,23.80,23.84,22.41,23.25,34845800,11.62  
2003-10-15,24.85,25.01,24.58,24.82,21789400,12.41  
2003-10-14,24.32,24.74,24.19,24.55,9836400,12.27  
2003-10-13,23.73,24.41,23.72,24.35,9995200,12.18  
2003-10-10,23.50,23.81,23.37,23.68,6244200,11.84  
2003-10-09,23.30,23.67,22.79,23.45,12419600,11.73  
2003-10-08,23.25,23.54,22.73,23.06,15309600,11.53  
2003-10-07,22.05,23.41,21.91,23.22,14934800,11.61  
2003-10-06,21.67,22.33,21.58,22.29,9583200,11.15  
2003-10-03,20.99,21.86,20.88,21.69,10700000,10.85  
2003-10-02,20.80,20.80,20.28,20.57,7287800,10.28  
2003-10-01,20.71,21.10,20.19,20.79,8432600,10.40  
2003-09-30,21.09,21.22,20.44,20.72,10193800,10.36  
2003-09-29,21.49,21.67,20.65,21.30,13060800,10.65  
2003-09-26,20.30,21.70,20.15,20.69,12401800,10.35  
2003-09-25,21.34,21.37,20.25,20.43,20513600,10.22  
2003-09-24,22.21,22.31,21.08,21.32,10760200,10.66  
2003-09-23,22.02,22.46,21.88,22.43,4730400,11.22  
2003-09-22,22.18,22.50,21.92,22.08,6422200,11.04  
2003-09-19,22.88,23.05,22.43,22.58,7355600,11.29  
2003-09-18,22.10,22.99,21.95,22.88,9032400,11.44  
2003-09-17,22.37,22.38,21.85,22.12,10335600,11.06  
2003-09-16,22.21,22.69,22.20,22.36,9607400,11.18  
2003-09-15,22.81,22.90,22.12,22.21,8101600,11.10  
2003-09-12,22.51,23.14,22.31,23.10,6428200,11.55  
2003-09-11,22.25,22.79,22.10,22.56,7631600,11.28  
2003-09-10,22.25,22.61,22.11,22.18,8031800,11.09  
2003-09-09,22.53,22.67,22.12,22.37,6441800,11.19  
2003-09-08,22.48,22.79,22.47,22.74,5973000,11.37  
2003-09-05,22.73,23.15,22.41,22.50,8576200,11.25  
2003-09-04,23.16,23.25,22.77,22.83,7135000,11.41  
2003-09-03,22.80,23.32,22.76,22.95,9601000,11.48

2003-09-02,22.66,22.90,22.40,22.85,8647600,11.43  
2003-08-29,22.20,22.85,22.05,22.61,9398400,11.31  
2003-08-28,21.33,22.22,21.33,22.19,11415200,11.10  
2003-08-27,20.91,21.48,20.66,21.48,8060800,10.74  
2003-08-26,20.75,21.07,20.35,21.05,5891400,10.52  
2003-08-25,20.78,20.91,20.49,20.86,4920800,10.43  
2003-08-22,21.81,22.00,20.64,20.88,8938000,10.44  
2003-08-21,21.03,21.71,20.95,21.68,9118800,10.84  
2003-08-20,20.18,21.27,20.14,21.01,9757600,10.51  
2003-08-19,20.37,20.45,20.00,20.32,4774600,10.16  
2003-08-18,19.86,20.41,19.72,20.34,6884800,10.17  
2003-08-15,20.02,20.07,19.66,19.71,4495200,9.85  
2003-08-14,20.21,20.33,19.94,19.97,6885000,9.98  
2003-08-13,19.86,20.34,19.58,20.18,10146400,10.09  
2003-08-12,19.76,19.80,19.46,19.70,5872800,9.85  
2003-08-11,19.82,19.93,19.51,19.66,4901000,9.83  
2003-08-08,20.11,20.13,19.60,19.64,4916400,9.82  
2003-08-07,19.73,20.09,19.42,19.93,6227800,9.97  
2003-08-06,20.06,20.17,19.50,19.63,8766600,9.81  
2003-08-05,21.35,21.40,20.10,20.38,8908600,10.19  
2003-08-04,20.53,21.50,20.28,21.21,8218400,10.60  
2003-08-01,21.00,21.27,20.64,20.73,5343000,10.36  
2003-07-31,20.74,21.35,20.57,21.08,10766600,10.54  
2003-07-30,20.77,20.90,20.17,20.28,6199800,10.14  
2003-07-29,20.99,21.08,20.52,20.72,7040000,10.36  
2003-07-28,21.50,21.50,20.86,20.99,6084200,10.49  
2003-07-25,20.41,21.57,20.40,21.54,7738800,10.77  
2003-07-24,21.04,21.50,20.38,20.51,8187000,10.26  
2003-07-23,20.95,20.96,20.46,20.79,5108400,10.40  
2003-07-22,20.87,20.96,20.50,20.80,7086600,10.40  
2003-07-21,20.69,20.80,20.30,20.61,6564600,10.31  
2003-07-18,20.90,21.18,20.40,20.86,10672800,10.43  
2003-07-17,20.19,20.95,20.13,20.90,26829000,10.45  
2003-07-16,19.97,20.00,19.38,19.87,8961800,9.94  
2003-07-15,20.02,20.24,19.43,19.61,7380200,9.81  
2003-07-14,20.01,20.40,19.87,19.90,6728800,9.95  
2003-07-11,19.66,20.00,19.53,19.85,4887800,9.93  
2003-07-10,19.88,19.94,19.37,19.58,6104800,9.79  
2003-07-09,20.21,20.45,19.89,19.89,7630200,9.94  
2003-07-08,19.52,20.50,19.49,20.40,9169200,10.20  
2003-07-07,19.27,20.18,19.13,19.87,10224000,9.94  
2003-07-03,19.00,19.55,18.98,19.13,4920400,9.56  
2003-07-02,19.03,19.40,19.02,19.27,11617800,9.64  
2003-07-01,18.87,19.18,18.51,19.09,6464000,9.55  
2003-06-30,18.68,19.21,18.59,19.06,7934000,9.53  
2003-06-27,19.30,19.31,18.48,18.73,13064000,9.36  
2003-06-26,18.70,19.32,18.70,19.29,5775200,9.65  
2003-06-25,18.86,19.40,18.71,19.09,11779000,9.55

2003-06-24,19.47,19.67,18.72,18.78,18370800,9.39  
2003-06-23,19.30,19.69,18.75,19.06,10977200,9.53  
2003-06-20,19.35,19.58,18.90,19.20,12733800,9.60  
2003-06-19,19.36,19.61,18.77,19.14,13626000,9.57  
2003-06-18,18.45,19.48,18.31,19.12,16249400,9.56  
2003-06-17,18.41,18.50,17.99,18.19,6338000,9.10  
2003-06-16,17.60,18.27,17.45,18.27,8518800,9.14  
2003-06-13,17.75,17.95,17.13,17.42,6830200,8.71  
2003-06-12,17.55,17.88,17.45,17.77,9021000,8.89  
2003-06-11,17.15,17.51,16.81,17.45,8039800,8.73  
2003-06-10,16.89,17.29,16.75,17.18,6308800,8.59  
2003-06-09,16.94,17.04,16.63,16.79,9284000,8.40  
2003-06-06,17.74,18.04,17.14,17.15,8621000,8.57  
2003-06-05,17.45,17.74,17.33,17.64,7339200,8.82  
2003-06-04,17.30,17.79,17.14,17.60,9685800,8.80  
2003-06-03,17.44,17.67,17.02,17.31,12887800,8.65  
2003-06-02,18.10,18.29,17.27,17.45,14949600,8.73  
2003-05-30,18.12,18.18,17.53,17.95,13669600,8.98  
2003-05-29,18.29,18.50,17.90,18.10,11920200,9.05  
2003-05-28,18.50,18.66,18.15,18.28,12131400,9.14  
2003-05-27,17.96,18.90,17.91,18.88,10361800,9.44  
2003-05-23,18.21,18.46,17.96,18.32,7382800,9.16  
2003-05-22,17.89,18.40,17.74,18.24,6373600,9.12  
2003-05-21,17.79,18.09,17.67,17.85,10893200,8.93  
2003-05-20,18.10,18.16,17.60,17.79,14865000,8.90  
2003-05-19,18.53,18.65,18.06,18.10,15924600,9.05  
2003-05-16,18.59,19.01,18.28,18.80,12201000,9.40  
2003-05-15,18.60,18.85,18.47,18.73,10178400,9.36  
2003-05-14,18.83,18.84,18.43,18.55,12696000,9.27  
2003-05-13,18.43,18.97,17.95,18.67,15957000,9.34  
2003-05-12,18.15,18.74,18.13,18.56,14977600,9.28  
2003-05-09,18.33,18.40,17.88,18.30,21013800,9.15  
2003-05-08,17.70,18.07,17.29,18.00,24562000,9.00  
2003-05-07,17.33,18.24,17.11,17.65,37656400,8.82  
2003-05-06,16.12,17.90,16.10,17.50,54089000,8.75  
2003-05-05,14.77,16.88,14.75,16.09,55561000,8.05  
2003-05-02,14.46,14.59,14.34,14.45,11470800,7.22  
2003-05-01,14.25,14.39,14.00,14.36,12241400,7.18  
2003-04-30,13.93,14.35,13.85,14.22,16363400,7.11  
2003-04-29,13.98,14.16,13.58,14.06,16365600,7.03  
2003-04-28,13.48,13.96,13.43,13.86,22742800,6.93  
2003-04-25,13.46,13.58,13.23,13.35,7332800,6.68  
2003-04-24,13.52,13.61,13.00,13.44,11611000,6.72  
2003-04-23,13.53,13.63,13.36,13.58,7488600,6.79  
2003-04-22,13.18,13.62,13.09,13.51,10734600,6.76  
2003-04-21,13.13,13.19,12.98,13.14,5440000,6.57  
2003-04-17,13.20,13.25,12.72,13.12,22009200,6.56  
2003-04-16,12.99,13.67,12.92,13.24,36292000,6.62

2003-04-15,13.59,13.60,13.30,13.39,10856000,6.70  
2003-04-14,13.71,13.75,13.50,13.58,17962800,6.79  
2003-04-11,14.05,14.44,12.93,13.20,49739600,6.60  
2003-04-10,14.20,14.39,14.20,14.37,38250000,7.18  
2003-04-09,14.52,14.62,14.14,14.19,5240200,7.09  
2003-04-08,14.51,14.65,14.36,14.45,4604800,7.22  
2003-04-07,14.85,14.95,14.41,14.49,7030800,7.24  
2003-04-04,14.52,14.67,14.39,14.41,5215000,7.20  
2003-04-03,14.56,14.70,14.35,14.46,5204000,7.23  
2003-04-02,14.36,14.69,14.27,14.60,6120400,7.30  
2003-04-01,14.20,14.31,14.07,14.16,5512200,7.08  
2003-03-31,14.33,14.53,14.04,14.14,9166400,7.07  
2003-03-28,14.40,14.62,14.37,14.57,5189400,7.28  
2003-03-27,14.32,14.70,14.32,14.49,4371200,7.24  
2003-03-26,14.55,14.56,14.30,14.41,6369400,7.20  
2003-03-25,14.41,14.83,14.37,14.55,5989200,7.28  
2003-03-24,14.67,14.80,14.35,14.37,5753600,7.18  
2003-03-21,15.09,15.15,14.82,15.00,10641000,7.50  
2003-03-20,14.93,14.99,14.60,14.91,5827800,7.45  
2003-03-19,15.07,15.15,14.79,14.95,5047000,7.47  
2003-03-18,15.00,15.09,14.82,15.00,8213600,7.50  
2003-03-17,14.89,15.07,14.71,15.01,14282600,7.51  
2003-03-14,14.68,15.01,14.64,14.78,5467800,7.39  
2003-03-13,14.47,14.80,14.17,14.72,11980200,7.36  
2003-03-12,14.17,14.39,14.06,14.22,7948600,7.11  
2003-03-11,14.36,14.49,14.12,14.23,5756800,7.11  
2003-03-10,14.51,14.67,14.30,14.37,4806200,7.18  
2003-03-07,14.47,14.71,14.31,14.53,7178000,7.26  
2003-03-06,14.58,14.60,14.40,14.56,3566400,7.28  
2003-03-05,14.61,14.80,14.52,14.62,4524400,7.31  
2003-03-04,14.74,14.81,14.44,14.56,4514800,7.28  
2003-03-03,15.01,15.16,14.55,14.65,7277200,7.32  
2003-02-28,14.86,15.09,14.77,15.01,6967800,7.51  
2003-02-27,14.57,15.00,14.51,14.86,5512200,7.43  
2003-02-26,14.99,15.02,14.48,14.50,7753400,7.25  
2003-02-25,14.68,15.08,14.58,15.02,6737200,7.51  
2003-02-24,14.86,15.03,13.80,14.74,6437600,7.37  
2003-02-21,14.82,15.06,14.65,15.00,5623000,7.50  
2003-02-20,14.85,14.96,14.71,14.77,8012600,7.39  
2003-02-19,15.07,15.15,14.68,14.85,8584600,7.43  
2003-02-18,14.75,15.30,14.72,15.27,10389200,7.64  
2003-02-14,14.61,14.72,14.35,14.67,8689200,7.34  
2003-02-13,14.41,14.64,14.24,14.54,7446200,7.27  
2003-02-12,14.27,14.60,14.27,14.39,8167400,7.20  
2003-02-11,14.50,14.63,14.20,14.35,5885000,7.18  
2003-02-10,14.26,14.57,14.06,14.35,5996000,7.18  
2003-02-07,14.55,14.60,14.07,14.15,9632200,7.07  
2003-02-06,14.36,14.59,14.22,14.43,6398200,7.22

2003-02-05,14.71,14.93,14.44,14.45,7914800,7.22  
2003-02-04,14.45,14.65,14.31,14.60,11336200,7.30  
2003-02-03,14.41,14.91,14.35,14.66,9456600,7.33  
2003-01-31,14.19,14.55,14.05,14.36,12186600,7.18  
2003-01-30,14.98,15.07,14.29,14.32,14537800,7.16  
2003-01-29,14.55,15.10,14.30,14.93,13323000,7.47  
2003-01-28,14.24,14.69,14.16,14.58,10223400,7.29  
2003-01-27,13.68,14.50,13.65,14.13,13978800,7.07  
2003-01-24,14.24,14.24,13.56,13.80,10909600,6.90  
2003-01-23,14.05,14.36,13.95,14.17,8152000,7.09  
2003-01-22,13.98,14.15,13.80,13.88,7683600,6.94  
2003-01-21,14.21,14.41,14.00,14.02,9052000,7.01  
2003-01-17,14.56,14.56,14.08,14.10,9527200,7.05  
2003-01-16,14.21,14.76,14.21,14.62,19966800,7.31  
2003-01-15,14.59,14.70,14.26,14.43,13254600,7.22  
2003-01-14,14.69,14.82,14.49,14.61,6673600,7.30  
2003-01-13,14.90,14.90,14.36,14.63,6390800,7.32  
2003-01-10,14.58,14.82,14.49,14.72,6253600,7.36  
2003-01-09,14.62,14.92,14.50,14.68,7687600,7.34  
2003-01-08,14.58,14.71,14.44,14.55,8201600,7.28  
2003-01-07,14.79,15.00,14.47,14.85,12226600,7.43  
2003-01-06,15.03,15.38,14.88,14.90,13947600,7.45  
2003-01-03,14.80,14.93,14.59,14.90,5266200,7.45  
2003-01-02,14.36,14.92,14.35,14.80,6479600,7.40  
2002-12-31,14.00,14.36,13.95,14.33,7168800,7.16  
2002-12-30,14.08,14.15,13.84,14.07,5537200,7.03  
2002-12-27,14.31,14.38,14.01,14.06,2858400,7.03  
2002-12-26,14.42,14.81,14.28,14.40,3050800,7.20  
2002-12-24,14.44,14.47,14.30,14.36,1405000,7.18  
2002-12-23,14.16,14.55,14.12,14.49,4493800,7.24  
2002-12-20,14.29,14.56,13.78,14.14,11360600,7.07  
2002-12-19,14.53,14.92,14.10,14.20,12411400,7.10  
2002-12-18,14.80,14.86,14.50,14.57,5382200,7.28  
2002-12-17,14.85,15.19,14.66,15.08,7952200,7.54  
2002-12-16,14.81,15.10,14.61,14.85,8986600,7.43  
2002-12-13,15.14,15.15,14.65,14.79,5885000,7.39  
2002-12-12,15.51,15.55,15.01,15.19,5333600,7.59  
2002-12-11,15.30,15.49,15.08,15.49,9053600,7.74  
2002-12-10,14.75,15.45,14.73,15.28,11021800,7.64  
2002-12-09,14.94,14.95,14.67,14.75,8431600,7.38  
2002-12-06,14.65,15.19,14.52,14.95,8762800,7.47  
2002-12-05,15.03,15.08,14.53,14.63,8692800,7.32  
2002-12-04,15.18,15.19,14.50,14.97,11634200,7.49  
2002-12-03,15.20,15.34,15.10,15.16,8138200,7.58  
2002-12-02,15.90,16.10,15.01,15.18,14240800,7.59  
2002-11-29,15.79,15.88,15.41,15.50,5122600,7.75  
2002-11-27,15.60,15.86,15.45,15.72,10242800,7.86  
2002-11-26,15.85,15.90,15.27,15.41,8580800,7.70

2002-11-25,16.03,16.14,15.71,15.97,7122400,7.99  
2002-11-22,16.09,16.30,15.90,16.01,8137800,8.01  
2002-11-21,15.90,16.44,15.75,16.35,14945800,8.18  
2002-11-20,15.30,15.70,15.25,15.53,7455000,7.76  
2002-11-19,15.55,15.75,15.01,15.27,7534000,7.64  
2002-11-18,16.19,16.20,15.52,15.65,5877800,7.82  
2002-11-15,16.23,16.24,15.76,15.95,5749800,7.97  
2002-11-14,15.90,16.41,15.78,16.30,5061200,8.15  
2002-11-13,15.50,16.07,15.28,15.59,8276400,7.80  
2002-11-12,15.32,16.04,15.28,15.64,7992600,7.82  
2002-11-11,15.74,15.89,15.12,15.16,5463400,7.58  
2002-11-08,16.01,16.20,15.52,15.84,6788000,7.92  
2002-11-07,16.94,17.10,15.81,16.00,12006400,8.00  
2002-11-06,17.08,17.32,16.70,17.22,7728200,8.61  
2002-11-05,16.75,16.96,16.35,16.90,7524800,8.45  
2002-11-04,16.50,17.38,16.35,16.89,13457800,8.44  
2002-11-01,15.94,16.50,15.89,16.36,6779600,8.18  
2002-10-31,15.99,16.44,15.92,16.07,10565600,8.03  
2002-10-30,15.49,16.37,15.48,15.98,9667000,7.99  
2002-10-29,15.57,15.88,14.96,15.44,9256400,7.72  
2002-10-28,15.55,15.95,15.25,15.61,12475000,7.80  
2002-10-25,14.69,15.45,14.59,15.42,9966800,7.71  
2002-10-24,15.02,15.21,14.55,14.69,6241000,7.34  
2002-10-23,14.63,14.98,14.50,14.88,7465600,7.44  
2002-10-22,14.47,14.88,14.26,14.70,7791000,7.35  
2002-10-21,14.26,14.63,14.00,14.56,8518600,7.28  
2002-10-18,14.00,14.35,13.93,14.34,10296400,7.17  
2002-10-17,14.21,14.38,13.98,14.11,16760600,7.05  
2002-10-16,14.86,15.13,13.90,14.56,10986600,7.28  
2002-10-15,15.22,15.25,14.78,15.16,14482800,7.58  
2002-10-14,14.55,14.98,14.44,14.77,6943000,7.39  
2002-10-11,14.25,14.78,14.10,14.51,10524200,7.26  
2002-10-10,13.63,14.22,13.58,14.11,11484800,7.05  
2002-10-09,13.54,13.85,13.41,13.59,12738800,6.80  
2002-10-08,13.90,13.96,13.36,13.68,16201600,6.84  
2002-10-07,13.97,14.21,13.76,13.77,8739200,6.89  
2002-10-04,14.36,14.40,13.99,14.03,6815200,7.01  
2002-10-03,14.18,14.60,14.06,14.30,7782000,7.15  
2002-10-02,14.33,14.63,14.10,14.17,8191000,7.09  
2002-10-01,14.59,14.60,14.00,14.51,12229400,7.26  
2002-09-30,14.40,14.57,14.14,14.50,8489200,7.25  
2002-09-27,14.49,14.85,14.48,14.72,7362600,7.36  
2002-09-26,15.10,15.19,14.55,14.70,7451600,7.35  
2002-09-25,14.69,15.17,14.65,14.93,9095800,7.47  
2002-09-24,14.40,14.82,14.40,14.64,8952200,7.32  
2002-09-23,14.76,14.96,14.45,14.85,9418200,7.43  
2002-09-20,14.62,14.94,14.52,14.87,12599600,7.43  
2002-09-19,14.75,14.80,14.48,14.58,7355200,7.29

2002-09-18,14.69,15.09,14.52,15.02,11737200,7.51  
2002-09-17,14.57,15.03,14.57,14.80,15285600,7.40  
2002-09-16,14.14,14.61,14.12,14.50,10237200,7.25  
2002-09-13,14.13,14.34,14.05,14.17,10105400,7.09  
2002-09-12,14.20,14.51,14.12,14.14,9636800,7.07  
2002-09-11,14.34,14.60,14.15,14.29,7229000,7.14  
2002-09-10,14.41,14.49,14.12,14.33,8909600,7.16  
2002-09-09,14.28,14.53,14.15,14.37,5651600,7.18  
2002-09-06,14.51,14.65,14.23,14.38,6485400,7.19  
2002-09-05,14.22,14.36,14.05,14.18,8077800,7.09  
2002-09-04,14.20,14.78,14.17,14.48,15023600,7.24  
2002-09-03,14.49,14.55,14.05,14.05,9890600,7.03  
2002-08-30,14.73,15.14,14.58,14.75,6911400,7.38  
2002-08-29,14.65,15.08,14.51,14.70,5863200,7.35  
2002-08-28,14.80,15.12,14.65,14.70,8856200,7.35  
2002-08-27,15.71,15.74,14.71,14.85,9365400,7.43  
2002-08-26,15.95,15.95,15.16,15.53,6784600,7.76  
2002-08-23,15.90,15.93,15.45,15.73,5830200,7.86  
2002-08-22,16.20,16.25,15.66,15.97,9225400,7.99  
2002-08-21,16.01,16.24,15.45,16.12,7229600,8.06  
2002-08-20,15.97,16.09,15.53,15.91,6665200,7.95  
2002-08-19,15.78,16.25,15.72,15.98,7734200,7.99  
2002-08-16,15.45,16.10,15.28,15.81,8758000,7.91  
2002-08-15,15.25,15.75,15.01,15.61,11502800,7.80  
2002-08-14,14.67,15.35,14.54,15.17,14253000,7.59  
2002-08-13,14.90,15.21,14.55,14.59,9638200,7.30  
2002-08-12,14.90,15.02,14.69,14.99,6420200,7.49  
2002-08-09,15.25,15.25,14.75,15.00,7347000,7.50  
2002-08-08,14.77,15.38,14.77,15.30,8119600,7.65  
2002-08-07,15.09,15.36,14.35,15.03,11909800,7.51  
2002-08-06,14.21,15.23,14.08,14.74,9716200,7.37  
2002-08-05,14.51,14.70,13.97,13.99,7286600,6.99  
2002-08-02,14.74,15.00,14.25,14.45,6395000,7.22  
2002-08-01,15.11,15.42,14.73,14.80,8177000,7.40  
2002-07-31,15.40,15.42,14.90,15.26,11096400,7.63  
2002-07-30,14.85,15.51,14.56,15.43,12672800,7.72  
2002-07-29,14.48,15.10,14.37,15.02,9820000,7.51  
2002-07-26,14.46,14.53,13.80,14.34,7418000,7.17  
2002-07-25,14.93,14.95,14.01,14.36,17119800,7.18  
2002-07-24,14.33,15.22,14.25,15.20,14521200,7.60  
2002-07-23,14.90,15.13,14.44,14.47,14281800,7.24  
2002-07-22,14.75,15.19,14.61,14.92,15389200,7.46  
2002-07-19,14.70,15.17,14.53,14.96,13757400,7.48  
2002-07-18,15.50,15.56,14.75,14.99,19980800,7.49  
2002-07-17,16.13,16.20,15.19,15.63,43410200,7.82  
2002-07-16,18.15,18.57,17.61,17.86,15956000,8.93  
2002-07-15,17.43,18.60,16.81,18.23,10571200,9.11  
2002-07-12,18.55,18.79,17.26,17.51,15839000,8.76



2002-07-11,17.26,18.35,16.97,18.30,13345600,9.15  
2002-07-10,17.71,18.17,17.25,17.32,7388600,8.66  
2002-07-09,18.09,18.29,17.46,17.53,8098200,8.77  
2002-07-08,18.52,18.61,17.68,18.01,7543000,9.01  
2002-07-05,17.71,18.75,17.71,18.74,5773200,9.37  
2002-07-03,16.81,17.68,16.75,17.55,7108200,8.77  
2002-07-02,17.03,17.16,16.83,16.94,10899600,8.47  
2002-07-01,17.71,17.88,17.05,17.06,7953200,8.53  
2002-06-28,17.10,17.82,17.00,17.72,9637800,8.86  
2002-06-27,16.79,17.27,16.42,17.06,8987800,8.53  
2002-06-26,16.80,17.29,15.98,16.55,19962600,8.27  
2002-06-25,17.40,17.68,16.86,17.14,10757200,8.57  
2002-06-24,16.77,17.73,16.70,17.27,15426200,8.64  
2002-06-21,16.97,17.49,16.79,16.85,15899200,8.43  
2002-06-20,17.17,17.60,16.85,17.11,14165600,8.56  
2002-06-19,17.37,17.60,16.88,17.12,61052400,8.56  
2002-06-18,20.42,20.59,19.98,20.15,12620000,10.07  
2002-06-17,20.24,20.63,19.85,20.54,11593200,10.27  
2002-06-14,19.24,20.36,18.11,20.10,15175000,10.05  
2002-06-13,20.02,20.05,19.38,19.54,12574400,9.77  
2002-06-12,20.41,20.75,19.94,20.09,18882800,10.05  
2002-06-11,21.64,21.70,20.41,20.46,12482000,10.23  
2002-06-10,21.48,21.84,21.34,21.48,9913400,10.74  
2002-06-07,21.76,21.94,20.93,21.40,21870600,10.70  
2002-06-06,22.96,23.23,22.04,22.16,9285600,11.08  
2002-06-05,22.83,22.83,22.35,22.72,9895800,11.36  
2002-06-04,22.88,23.04,22.18,22.78,12422200,11.39  
2002-06-03,23.39,23.45,22.58,22.91,8396800,11.45  
2002-05-31,24.09,24.25,23.28,23.30,13053400,11.65  
2002-05-30,23.77,24.38,23.51,24.20,7013400,12.10  
2002-05-29,23.92,24.44,23.45,23.98,7921200,11.99  
2002-05-28,23.69,24.20,23.43,23.98,5347000,11.99  
2002-05-24,24.99,24.99,23.96,24.15,5934800,12.07  
2002-05-23,24.45,25.24,24.07,25.18,13192800,12.59  
2002-05-22,23.37,24.37,23.32,24.32,10388400,12.16  
2002-05-21,24.83,25.00,23.40,23.46,10035400,11.73  
2002-05-20,24.57,24.93,24.53,24.74,9639800,12.37  
2002-05-17,25.49,25.78,24.61,25.01,8446200,12.51  
2002-05-16,25.06,25.45,24.75,25.21,8109000,12.60  
2002-05-15,25.37,25.98,24.84,25.28,11993800,12.64  
2002-05-14,24.45,25.68,24.22,25.61,18803800,12.81  
2002-05-13,23.52,24.09,22.94,23.94,9486000,11.97  
2002-05-10,24.29,24.29,22.98,23.32,8407000,11.66  
2002-05-09,24.25,24.35,23.80,24.19,8022000,12.10  
2002-05-08,23.20,24.52,23.04,24.37,15595800,12.19  
2002-05-07,22.94,22.95,22.14,22.47,8669600,11.23  
2002-05-06,23.35,23.50,22.46,22.65,8916600,11.32  
2002-05-03,23.57,24.02,23.43,23.51,8242200,11.76

2002-05-02,23.81,24.34,23.60,23.69,8548000,11.85  
2002-05-01,24.29,24.29,23.36,23.98,7668000,11.99  
2002-04-30,23.89,24.38,23.75,24.27,10034400,12.14  
2002-04-29,23.16,24.06,23.09,23.96,9724600,11.98  
2002-04-26,24.28,24.37,23.00,23.01,10892200,11.51  
2002-04-25,23.56,24.34,23.55,24.12,6935800,12.06  
2002-04-24,24.30,24.50,23.68,23.77,5016000,11.89  
2002-04-23,24.54,24.78,24.09,24.25,8338200,12.12  
2002-04-22,24.84,24.93,24.23,24.53,9622400,12.27  
2002-04-19,25.49,25.49,24.93,24.98,13407400,12.49  
2002-04-18,25.50,25.52,24.88,25.41,14346800,12.70  
2002-04-17,25.93,26.17,25.38,26.11,14151800,13.06  
2002-04-16,25.15,25.99,25.12,25.74,21949200,12.87  
2002-04-15,25.06,25.15,24.80,25.00,10691800,12.50  
2002-04-12,25.01,25.17,24.57,25.06,11437200,12.53  
2002-04-11,25.03,25.20,24.75,24.86,14544800,12.43  
2002-04-10,24.21,24.95,24.01,24.66,8035000,12.33  
2002-04-09,24.59,25.00,24.01,24.10,6840400,12.05  
2002-04-08,24.16,24.68,23.78,24.56,9339800,12.28  
2002-04-05,24.95,25.19,24.10,24.74,9941000,12.37  
2002-04-04,23.67,25.05,23.67,24.90,12089200,12.45  
2002-04-03,24.05,24.49,23.60,23.75,7661800,11.88  
2002-04-02,24.00,24.30,23.87,24.07,7278400,12.03  
2002-04-01,23.38,24.70,23.28,24.46,7108800,12.23  
2002-03-28,23.70,23.88,23.46,23.67,3873400,11.84  
2002-03-27,23.35,23.72,23.26,23.47,4560800,11.73  
2002-03-26,23.20,23.64,23.00,23.46,9208600,11.73  
2002-03-25,24.07,24.09,23.24,23.35,9386800,11.68  
2002-03-22,24.22,24.56,23.87,24.09,7221200,12.05  
2002-03-21,23.86,24.30,23.26,24.27,22012600,12.14  
2002-03-20,24.66,25.14,24.50,24.92,10511400,12.46  
2002-03-19,24.69,25.30,24.30,24.85,8655200,12.43  
2002-03-18,24.95,25.05,24.32,24.74,10877000,12.37  
2002-03-15,24.46,24.96,24.25,24.95,8603600,12.48  
2002-03-14,24.30,24.60,23.87,24.43,7760600,12.22  
2002-03-13,24.37,24.85,24.15,24.49,7170200,12.24  
2002-03-12,24.51,24.74,24.10,24.72,9073400,12.36  
2002-03-11,24.60,25.14,24.10,25.06,9385200,12.53  
2002-03-08,24.74,25.09,24.30,24.66,9634800,12.33  
2002-03-07,24.06,24.53,23.61,24.38,9223200,12.19  
2002-03-06,23.48,24.34,22.93,24.07,8078800,12.03  
2002-03-05,24.15,24.43,23.40,23.53,9810800,11.77  
2002-03-04,23.26,24.58,22.76,24.29,12437800,12.15  
2002-03-01,21.93,23.50,21.82,23.45,12464000,11.73  
2002-02-28,22.15,22.59,21.35,21.70,16319200,10.85  
2002-02-27,23.94,24.25,20.94,21.96,36791400,10.98  
2002-02-26,23.91,24.37,23.25,23.67,9290400,11.84  
2002-02-25,22.85,24.72,22.36,23.81,15244600,11.90

2002-02-22,21.66,22.95,21.50,22.74,14517000,11.37  
2002-02-21,22.92,23.00,21.45,21.50,15955400,10.75  
2002-02-20,22.77,23.20,22.35,23.13,10194400,11.56  
2002-02-19,23.76,23.87,22.48,22.62,13937800,11.31  
2002-02-15,24.53,24.98,23.85,23.90,9292400,11.95  
2002-02-14,25.05,25.23,24.38,24.60,9291800,12.30  
2002-02-13,24.73,25.24,24.65,25.01,11174000,12.51  
2002-02-12,24.66,25.04,24.45,24.71,8010000,12.35  
2002-02-11,23.93,25.00,23.74,24.98,14235800,12.49  
2002-02-08,24.40,24.64,23.37,24.03,12690400,12.02  
2002-02-07,24.65,25.29,24.08,24.30,12422600,12.15  
2002-02-06,25.60,25.98,24.15,24.67,21342000,12.34  
2002-02-05,25.09,25.98,25.08,25.45,16317400,12.73  
2002-02-04,24.32,25.52,24.20,25.35,18656200,12.68  
2002-02-01,24.34,24.96,24.34,24.41,14225200,12.20  
2002-01-31,24.16,24.73,24.11,24.72,16730200,12.36  
2002-01-30,23.07,24.14,22.94,24.09,16842000,12.05  
2002-01-29,23.22,23.54,22.85,23.07,8583000,11.53  
2002-01-28,23.40,23.55,22.72,23.27,6658800,11.64  
2002-01-25,22.89,23.42,22.66,23.25,6639800,11.62  
2002-01-24,22.91,23.51,22.90,23.21,12285800,11.60  
2002-01-23,21.80,23.04,21.59,23.02,15831400,11.51  
2002-01-22,22.27,22.37,21.82,21.82,11689800,10.91  
2002-01-18,22.00,22.60,21.96,22.17,12100400,11.09  
2002-01-17,21.96,22.74,21.87,22.48,23592000,11.24  
2002-01-16,21.41,21.41,20.50,20.78,20246200,10.39  
2002-01-15,21.32,21.76,21.21,21.70,10368600,10.85  
2002-01-14,21.01,21.40,20.90,21.15,14857000,10.57  
2002-01-11,21.39,21.84,20.60,21.05,12457200,10.52  
2002-01-10,21.22,21.46,20.25,21.23,16169200,10.61  
2002-01-09,22.80,22.93,21.28,21.65,11708400,10.82  
2002-01-08,22.75,23.05,22.46,22.61,16072800,11.31  
2002-01-07,23.72,24.00,22.75,22.90,15878000,11.45  
2002-01-04,23.34,23.95,22.99,23.69,14642000,11.85  
2002-01-03,23.00,23.75,22.77,23.58,21857400,11.79  
2002-01-02,22.05,23.30,21.96,23.30,18910600,11.65  
2001-12-31,22.51,22.66,21.83,21.90,4920800,10.95  
2001-12-28,21.97,23.00,21.96,22.43,10683000,11.22  
2001-12-27,21.58,22.25,21.58,22.07,6839600,11.03  
2001-12-26,21.35,22.30,21.14,21.49,5228600,10.74  
2001-12-24,20.90,21.45,20.90,21.36,1808200,10.68  
2001-12-21,21.01,21.54,20.80,21.00,9154800,10.50  
2001-12-20,21.40,21.47,20.62,20.67,7888000,10.34  
2001-12-19,20.58,21.68,20.47,21.62,10355600,10.81  
2001-12-18,20.89,21.33,20.22,21.01,8401400,10.51  
2001-12-17,20.40,21.00,20.19,20.62,6204000,10.31  
2001-12-14,20.73,20.83,20.09,20.39,6781600,10.19  
2001-12-13,21.49,21.55,20.50,21.00,7065800,10.50

2001-12-12,21.87,21.92,21.25,21.49,6873600,10.74  
2001-12-11,22.67,22.85,21.65,21.78,7338400,10.89  
2001-12-10,22.29,22.99,22.23,22.54,6071800,11.27  
2001-12-07,22.46,22.71,22.00,22.54,7268400,11.27  
2001-12-06,23.48,23.50,22.14,22.78,12104800,11.39  
2001-12-05,22.36,24.03,22.17,23.76,20306400,11.88  
2001-12-04,21.05,22.56,20.72,22.40,13586400,11.20  
2001-12-03,21.06,21.28,20.60,21.05,6470200,10.52  
2001-11-30,20.47,21.44,20.25,21.30,10854000,10.65  
2001-11-29,20.60,20.70,20.19,20.42,7241600,10.21  
2001-11-28,20.85,21.21,20.41,20.53,8950400,10.27  
2001-11-27,21.20,21.52,20.50,21.00,9591200,10.50  
2001-11-26,19.94,21.55,19.88,21.37,16453200,10.69  
2001-11-23,19.71,19.95,19.57,19.84,2143000,9.92  
2001-11-21,19.61,19.80,19.26,19.68,7199400,9.84  
2001-11-20,19.82,20.20,19.50,19.53,9878000,9.77  
2001-11-19,19.00,20.05,18.96,20.00,11878200,10.00  
2001-11-16,19.27,19.29,18.40,18.97,8238000,9.48  
2001-11-15,19.45,19.90,19.23,19.45,7608200,9.73  
2001-11-14,19.59,19.90,19.15,19.61,7898200,9.81  
2001-11-13,19.08,19.39,18.71,19.37,8024000,9.69  
2001-11-12,18.66,19.17,17.96,18.75,7196400,9.38  
2001-11-09,18.60,19.25,18.55,18.71,4796200,9.35  
2001-11-08,19.63,19.89,18.57,18.71,12219400,9.35  
2001-11-07,19.46,20.13,19.33,19.59,13678200,9.80  
2001-11-06,18.96,19.62,18.53,19.57,11286400,9.78  
2001-11-05,18.84,19.25,18.61,19.07,8421200,9.53  
2001-11-02,18.52,18.86,18.16,18.57,7043000,9.28  
2001-11-01,17.65,18.78,17.25,18.59,11178400,9.30  
2001-10-31,17.73,18.40,17.44,17.56,9776800,8.78  
2001-10-30,17.38,18.00,17.06,17.60,9884400,8.80  
2001-10-29,18.57,18.67,17.60,17.63,8542200,8.81  
2001-10-26,18.86,19.25,18.62,18.67,9963000,9.34  
2001-10-25,18.44,19.25,18.16,19.19,9105400,9.60  
2001-10-24,18.06,19.09,17.75,18.95,13372400,9.48  
2001-10-23,19.12,19.42,17.87,18.14,24463600,9.07  
2001-10-22,18.21,19.07,18.09,19.02,13997800,9.51  
2001-10-19,17.94,18.40,17.88,18.30,5956800,9.15  
2001-10-18,17.29,18.23,17.29,18.00,21877600,9.00  
2001-10-17,18.34,18.41,16.96,16.99,10197800,8.49  
2001-10-16,18.09,18.20,17.77,18.01,7248200,9.01  
2001-10-15,17.95,18.38,17.95,17.99,11384000,8.99  
2001-10-12,17.31,18.08,16.86,18.01,10279000,9.01  
2001-10-11,16.92,17.74,16.85,17.74,11934400,8.87  
2001-10-10,16.10,16.85,15.95,16.82,10991400,8.41  
2001-10-09,16.05,16.20,15.63,16.00,6215200,8.00  
2001-10-08,15.57,16.35,15.50,16.20,7428000,8.10  
2001-10-05,15.40,16.15,14.99,16.14,12238800,8.07

2001-10-04,15.35,16.25,14.99,15.88,14325800,7.94  
2001-10-03,14.95,15.36,14.83,14.98,24394400,7.49  
2001-10-02,15.43,15.83,14.88,15.05,8424400,7.53  
2001-10-01,15.49,15.99,15.23,15.54,7436000,7.77  
2001-09-28,15.71,15.91,15.39,15.51,13039600,7.76  
2001-09-27,15.25,15.75,15.20,15.51,11508600,7.76  
2001-09-26,15.81,15.89,14.93,15.15,17635600,7.57  
2001-09-25,16.14,16.22,15.35,15.54,13371600,7.77  
2001-09-24,16.11,16.84,15.95,16.45,10519200,8.23  
2001-09-21,14.80,16.25,14.68,15.73,20375600,7.86  
2001-09-20,16.29,16.95,15.50,15.68,14684800,7.84  
2001-09-19,16.50,17.10,15.60,17.02,13332800,8.51  
2001-09-18,16.90,17.72,16.17,16.28,11682200,8.14  
2001-09-17,16.00,17.07,15.73,16.99,16357400,8.49  
2001-09-10,17.00,17.50,16.92,17.37,11030200,8.69  
2001-09-07,17.50,18.10,17.20,17.28,8636800,8.64  
2001-09-06,18.40,18.93,17.65,17.72,10084600,8.86  
2001-09-05,18.24,18.95,18.12,18.55,12859200,9.27  
2001-09-04,18.50,19.08,18.18,18.25,12436200,9.12  
2001-08-31,17.73,18.60,17.65,18.55,7746600,9.27  
2001-08-30,17.74,18.18,17.28,17.83,13167600,8.91  
2001-08-29,18.44,18.83,17.83,17.83,8570400,8.91  
2001-08-28,18.90,19.14,18.40,18.40,6133400,9.20  
2001-08-27,18.60,19.30,18.16,18.92,6273000,9.46  
2001-08-24,18.00,18.62,17.65,18.57,10369000,9.28  
2001-08-23,18.20,18.34,17.58,17.81,7752800,8.90  
2001-08-22,17.94,18.25,17.61,18.21,6213400,9.10  
2001-08-21,18.14,18.14,17.70,17.92,6632200,8.96  
2001-08-20,18.14,18.23,17.81,18.12,9010800,9.06  
2001-08-17,18.00,18.45,17.99,18.07,7443800,9.03  
2001-08-16,18.27,18.75,17.97,18.65,10289000,9.32  
2001-08-15,18.76,18.94,18.20,18.44,10331400,9.22  
2001-08-14,19.20,19.36,18.67,18.73,8176800,9.36  
2001-08-13,19.10,19.33,18.76,19.09,5285600,9.55  
2001-08-10,19.04,19.32,18.59,19.02,6677200,9.51  
2001-08-09,18.96,19.15,18.72,19.05,7166600,9.52  
2001-08-08,19.26,19.70,18.54,18.90,9863200,9.45  
2001-08-07,19.33,19.67,18.98,19.25,6019600,9.62  
2001-08-06,19.04,19.66,19.00,19.13,3559000,9.56  
2001-08-03,19.89,19.90,19.00,19.50,6644800,9.75  
2001-08-02,19.65,19.87,19.26,19.82,9003200,9.91  
2001-08-01,19.01,19.78,18.95,19.06,10862000,9.53  
2001-07-31,19.27,19.42,18.51,18.79,8393800,9.40  
2001-07-30,19.12,19.36,18.51,18.93,8691400,9.47  
2001-07-27,18.75,19.25,18.50,18.96,11933400,9.48  
2001-07-26,18.48,18.80,17.85,18.59,13183600,9.30  
2001-07-25,19.12,19.30,17.97,18.47,15852800,9.23  
2001-07-24,19.39,19.92,18.73,19.09,12442000,9.55

2001-07-23,20.09,20.50,19.51,19.54,8620000,9.77  
2001-07-20,19.70,20.06,19.49,19.98,15878000,9.99  
2001-07-19,21.23,21.42,19.75,19.96,30755000,9.98  
2001-07-18,21.78,22.78,20.42,20.79,40607600,10.40  
2001-07-17,23.98,25.22,23.01,25.10,23136800,12.55  
2001-07-16,24.88,25.10,23.91,23.96,9952400,11.98  
2001-07-13,24.13,25.01,23.84,24.85,16240800,12.43  
2001-07-12,23.30,24.81,23.30,24.36,21957200,12.18  
2001-07-11,21.03,22.55,21.00,22.54,16803800,11.27  
2001-07-10,22.95,23.07,20.84,21.14,14116800,10.57  
2001-07-09,22.09,23.00,21.68,22.70,12052400,11.35  
2001-07-06,22.76,22.96,21.72,22.03,10818600,11.02  
2001-07-05,23.60,23.77,23.01,23.19,5439000,11.60  
2001-07-03,23.51,24.18,23.50,23.84,4019400,11.92  
2001-07-02,23.64,24.23,23.14,23.90,8216000,11.95  
2001-06-29,23.66,25.10,23.20,23.25,18406800,11.62  
2001-06-28,23.05,23.91,22.94,23.54,12443200,11.77  
2001-06-27,23.83,24.00,22.50,23.34,13361800,11.67  
2001-06-26,23.34,23.77,23.01,23.75,9742200,11.88  
2001-06-25,22.50,24.00,22.45,23.99,15698200,11.99  
2001-06-22,22.48,23.00,21.76,22.26,10215200,11.13  
2001-06-21,21.55,23.00,21.10,22.49,12190400,11.24  
2001-06-20,20.00,21.85,19.98,21.67,15415000,10.84  
2001-06-19,20.85,21.40,20.01,20.19,11467400,10.10  
2001-06-18,20.41,20.85,20.00,20.33,12354000,10.16  
2001-06-15,20.10,20.75,19.35,20.44,16236600,10.22  
2001-06-14,20.04,20.45,19.77,19.88,10619600,9.94  
2001-06-13,21.42,21.73,20.06,20.47,18267400,10.23  
2001-06-12,19.77,20.69,19.76,20.31,10849800,10.15  
2001-06-11,21.05,21.07,19.95,20.04,10500000,10.02  
2001-06-08,21.65,21.65,20.71,21.32,12236600,10.66  
2001-06-07,20.71,21.70,20.45,21.66,11613600,10.83  
2001-06-06,20.93,20.93,20.33,20.73,7970600,10.36  
2001-06-05,20.80,21.10,20.35,20.94,16849800,10.47  
2001-06-04,21.08,21.11,20.46,20.66,10068600,10.33  
2001-06-01,20.13,21.09,19.98,20.89,16288400,10.44  
2001-05-31,19.80,20.24,19.49,19.95,15817600,9.98  
2001-05-30,20.76,20.76,19.30,19.78,27752800,9.89  
2001-05-29,22.32,22.50,20.81,21.47,18428200,10.73  
2001-05-25,23.20,23.29,22.50,22.76,5669400,11.38  
2001-05-24,23.29,23.30,22.62,23.20,9705600,11.60  
2001-05-23,23.75,23.75,22.86,23.23,10037200,11.61  
2001-05-22,24.00,24.13,23.40,23.50,14747000,11.75  
2001-05-21,23.63,23.91,23.05,23.56,16464200,11.78  
2001-05-18,23.36,23.64,23.12,23.53,5680400,11.77  
2001-05-17,24.23,24.33,23.25,23.55,11861400,11.77  
2001-05-16,23.26,24.50,22.85,24.10,11511800,12.05  
2001-05-15,23.37,25.50,23.04,23.18,8465200,11.59

2001-05-14,22.89,23.68,22.75,23.29,11043600,11.65  
2001-05-11,23.01,23.49,22.76,22.85,7251600,11.43  
2001-05-10,24.21,24.50,22.95,23.00,10320600,11.50  
2001-05-09,24.14,24.55,23.67,23.98,11603200,11.99  
2001-05-08,25.35,25.45,23.95,24.57,11265600,12.28  
2001-05-07,25.62,25.76,24.84,24.96,9876800,12.48  
2001-05-04,24.24,25.85,23.96,25.75,10037600,12.88  
2001-05-03,25.97,26.25,24.73,24.96,10769400,12.48  
2001-05-02,26.34,26.70,25.76,26.59,13161600,13.30  
2001-05-01,25.41,26.50,25.20,25.93,15259000,12.97  
2001-04-30,26.70,27.12,24.87,25.49,17670600,12.74  
2001-04-27,25.20,26.29,24.75,26.20,16179000,13.10  
2001-04-26,25.17,26.10,24.68,24.69,28560600,12.35  
2001-04-25,24.21,24.86,23.57,24.72,11813600,12.36  
2001-04-24,24.33,24.75,23.51,24.03,13469200,12.02  
2001-04-23,24.34,25.00,24.00,24.25,19340200,12.12  
2001-04-20,24.93,25.63,24.60,25.04,24764400,12.52  
2001-04-19,25.55,25.75,23.60,25.72,66916800,12.86  
2001-04-18,21.57,24.08,21.08,22.79,39315800,11.40  
2001-04-17,21.20,21.21,19.60,20.40,24471400,10.20  
2001-04-16,22.09,22.40,20.86,21.44,10186600,10.72  
2001-04-12,21.42,23.02,21.15,22.42,10676200,11.21  
2001-04-11,22.98,23.00,21.28,21.80,11932000,10.90  
2001-04-10,20.90,22.70,20.78,22.04,16334800,11.02  
2001-04-09,20.69,21.34,20.06,20.54,9520800,10.27  
2001-04-06,20.80,21.04,19.90,20.59,11603200,10.30  
2001-04-05,20.60,22.50,20.00,20.87,15955800,10.44  
2001-04-04,19.76,20.25,18.75,19.50,24481600,9.75  
2001-04-03,21.36,21.40,20.13,20.24,13167400,10.12  
2001-04-02,22.09,22.66,21.40,21.59,12175400,10.80  
2001-03-30,22.55,22.72,21.34,22.07,14298200,11.03  
2001-03-29,21.77,23.45,21.50,22.53,21895200,11.27  
2001-03-28,22.08,22.50,21.50,22.17,20880800,11.09  
2001-03-27,21.94,23.05,21.90,22.87,19422200,11.44  
2001-03-26,23.13,23.75,21.13,21.78,26230400,10.89  
2001-03-23,22.06,23.56,22.00,23.00,33749400,11.50  
2001-03-22,20.37,21.75,20.19,21.62,25839000,10.81  
2001-03-21,19.78,20.87,19.37,20.12,13265400,10.06  
2001-03-20,20.72,20.94,19.69,19.69,17833800,9.85  
2001-03-19,19.75,20.62,19.50,20.56,12722800,10.28  
2001-03-16,19.00,20.31,18.87,19.62,16806600,9.81  
2001-03-15,20.87,21.37,19.69,19.69,18906600,9.85  
2001-03-14,18.50,20.50,18.44,20.44,17065400,10.22  
2001-03-13,18.87,19.56,18.19,19.56,15840600,9.78  
2001-03-12,19.69,19.87,18.12,18.62,13967800,9.31  
2001-03-09,20.62,20.69,20.00,20.25,10685400,10.12  
2001-03-08,20.69,21.12,20.44,20.81,7325600,10.40  
2001-03-07,21.31,21.62,20.75,21.25,14985600,10.62

2001-03-06,20.72,22.06,20.69,21.50,26144600,10.75  
2001-03-05,19.37,20.50,19.25,20.37,11587600,10.19  
2001-03-02,18.31,20.44,18.25,19.25,14511200,9.62  
2001-03-01,17.81,18.75,17.19,18.75,11803400,9.38  
2001-02-28,19.37,19.44,18.12,18.25,18157600,9.12  
2001-02-27,19.28,19.44,18.69,19.37,12451000,9.69  
2001-02-26,19.06,19.69,18.56,19.50,7380000,9.75  
2001-02-23,18.62,18.87,18.25,18.81,10503800,9.40  
2001-02-22,19.06,19.37,18.00,18.81,15431200,9.40  
2001-02-21,18.25,19.94,18.25,18.87,13947800,9.44  
2001-02-20,19.19,19.44,18.19,18.31,11249600,9.15  
2001-02-16,19.00,19.50,18.75,19.00,9428400,9.50  
2001-02-15,19.69,20.56,19.69,20.06,11123200,10.03  
2001-02-14,19.19,19.62,18.50,19.50,11040000,9.75  
2001-02-13,19.94,20.44,19.00,19.12,8470600,9.56  
2001-02-12,19.06,20.00,18.81,19.69,9795600,9.85  
2001-02-09,20.50,20.81,18.69,19.12,21082600,9.56  
2001-02-08,20.56,21.06,20.19,20.75,21585000,10.38  
2001-02-07,20.66,20.87,19.81,20.75,14071600,10.38  
2001-02-06,20.16,21.39,20.00,21.12,16528400,10.56  
2001-02-05,20.50,20.56,19.75,20.19,10228800,10.10  
2001-02-02,21.12,21.94,20.50,20.62,15263400,10.31  
2001-02-01,20.69,21.50,20.50,21.12,13205400,10.56  
2001-01-31,21.50,22.50,21.44,21.62,26106000,10.81  
2001-01-30,21.56,22.00,20.87,21.75,24734600,10.88  
2001-01-29,19.56,21.75,19.56,21.69,30562800,10.85  
2001-01-26,19.50,19.81,19.06,19.56,17245600,9.78  
2001-01-25,20.56,20.56,19.75,19.94,17495000,9.97  
2001-01-24,20.62,20.69,19.56,20.50,25616200,10.25  
2001-01-23,19.31,20.94,19.06,20.50,31418400,10.25  
2001-01-22,19.06,19.62,18.44,19.25,18551600,9.62  
2001-01-19,19.44,19.56,18.69,19.50,27748200,9.75  
2001-01-18,17.81,18.75,17.62,18.69,43822800,9.35  
2001-01-17,17.56,17.56,16.50,16.81,30037600,8.40  
2001-01-16,17.44,18.25,17.00,17.12,10940000,8.56  
2001-01-12,17.87,18.00,17.06,17.19,15121000,8.60  
2001-01-11,16.25,18.50,16.25,18.00,28707600,9.00  
2001-01-10,16.69,17.00,16.06,16.56,20743400,8.28  
2001-01-09,16.81,17.64,16.56,17.19,21040600,8.60  
2001-01-08,16.94,16.98,15.94,16.56,13350000,8.28  
2001-01-05,16.94,17.37,16.06,16.37,14731000,8.19  
2001-01-04,18.14,18.50,16.81,17.06,26411000,8.53  
2001-01-03,14.50,16.69,14.44,16.37,29181800,8.19  
2001-01-02,14.88,15.25,14.56,14.88,16161800,7.44  
2000-12-29,14.69,15.00,14.50,14.88,22518800,7.44  
2000-12-28,14.38,14.94,14.31,14.81,10910000,7.41  
2000-12-27,14.34,14.81,14.19,14.81,11626000,7.41  
2000-12-26,14.88,15.00,14.25,14.69,7745400,7.34



2000-12-22,14.13,15.00,14.13,15.00,11369600,7.50  
2000-12-21,14.25,15.00,13.88,14.06,13102600,7.03  
2000-12-20,13.78,14.63,13.63,14.38,20196200,7.19  
2000-12-19,14.38,15.25,14.00,14.00,13367200,7.00  
2000-12-18,14.56,14.63,13.94,14.25,11645000,7.12  
2000-12-15,14.56,14.69,14.00,14.06,18363800,7.03  
2000-12-14,15.03,15.25,14.44,14.44,9406600,7.22  
2000-12-13,15.56,15.56,14.88,15.00,12327200,7.50  
2000-12-12,15.25,16.00,15.00,15.38,13803400,7.69  
2000-12-11,15.19,15.38,14.88,15.19,11884000,7.59  
2000-12-08,14.81,15.31,14.44,15.06,15568200,7.53  
2000-12-07,14.44,14.88,14.00,14.31,14606600,7.16  
2000-12-06,14.63,15.00,14.00,14.31,49092400,7.16  
2000-12-05,16.94,17.44,16.37,17.00,21932200,8.50  
2000-12-04,17.19,17.19,16.44,16.69,13273400,8.35  
2000-12-01,17.00,17.50,16.81,17.06,13783800,8.53  
2000-11-30,16.69,17.00,16.12,16.50,28922200,8.25  
2000-11-29,18.09,18.31,17.25,17.56,17586200,8.78  
2000-11-28,18.69,19.00,17.94,18.03,9618200,9.02  
2000-11-27,19.87,19.94,18.50,18.69,9244000,9.35  
2000-11-24,18.86,19.50,18.81,19.31,5751800,9.65  
2000-11-22,18.81,19.12,18.37,18.50,10029600,9.25  
2000-11-21,19.19,19.50,18.75,18.81,10786200,9.40  
2000-11-20,18.59,19.50,18.25,18.94,14581600,9.47  
2000-11-17,19.19,19.25,18.25,18.50,15943400,9.25  
2000-11-16,19.50,19.81,18.87,19.00,8554000,9.50  
2000-11-15,20.03,20.19,19.25,19.87,10086600,9.94  
2000-11-14,19.94,20.50,19.56,20.25,14611200,10.12  
2000-11-13,18.75,20.00,18.25,19.37,15423200,9.69  
2000-11-10,19.36,19.87,19.06,19.06,15080600,9.53  
2000-11-09,19.87,20.50,19.06,20.19,17035400,10.10  
2000-11-08,21.37,21.44,19.81,20.06,15082800,10.03  
2000-11-07,21.50,21.81,20.81,21.31,10786800,10.65  
2000-11-06,22.44,22.62,20.87,21.44,14060000,10.72  
2000-11-03,23.00,23.00,21.94,22.25,18423400,11.12  
2000-11-02,21.12,22.44,21.06,22.31,21105400,11.15  
2000-11-01,19.44,20.87,19.44,20.50,20553800,10.25  
2000-10-31,19.75,20.25,19.25,19.56,31649000,9.78  
2000-10-30,19.12,19.94,18.75,19.31,22832800,9.65  
2000-10-27,18.87,19.19,17.87,18.56,26594600,9.28  
2000-10-26,18.81,18.87,17.50,18.50,25780600,9.25  
2000-10-25,19.06,19.19,18.44,18.50,23720600,9.25  
2000-10-24,20.69,20.87,18.81,18.87,28736200,9.44  
2000-10-23,20.27,20.56,19.44,20.37,19694000,10.19  
2000-10-20,19.06,20.37,18.94,19.50,28270400,9.75  
2000-10-19,19.16,19.81,18.31,18.94,53818200,9.47  
2000-10-18,19.44,21.06,18.75,20.12,29803800,10.06  
2000-10-17,21.69,21.94,19.69,20.12,21495600,10.06

2000-10-16,22.31,23.25,21.37,21.50,29298800,10.75  
2000-10-13,20.25,22.12,20.00,22.06,44564000,11.03  
2000-10-12,20.31,20.81,19.50,20.00,42548200,10.00  
2000-10-11,20.12,21.00,19.12,19.62,42801200,9.81  
2000-10-10,21.62,22.44,20.50,20.87,24683400,10.44  
2000-10-09,22.62,22.87,21.12,21.75,21342600,10.88  
2000-10-06,22.69,22.94,21.00,22.19,21881000,11.10  
2000-10-05,23.50,24.50,22.00,22.06,31189400,11.03  
2000-10-04,22.37,23.75,21.87,23.62,52368200,11.81  
2000-10-03,24.94,25.00,22.19,22.31,72795600,11.15  
2000-10-02,26.69,26.75,23.50,24.25,86610600,12.12  
2000-09-29,28.19,29.00,25.37,25.75,265069000,12.88  
2000-09-28,49.31,53.81,48.13,53.50,34988200,26.75  
2000-09-27,51.75,52.75,48.25,48.94,14370000,24.47  
2000-09-26,53.31,54.75,51.38,51.44,10396600,25.72  
2000-09-25,52.75,55.50,52.06,53.50,15564000,26.75  
2000-09-22,50.31,52.44,50.00,52.19,25961200,26.09  
2000-09-21,58.50,59.63,55.25,56.69,18238400,28.34  
2000-09-20,59.41,61.44,58.56,61.05,8121600,30.52  
2000-09-19,59.75,60.50,58.56,59.94,9706200,29.97  
2000-09-18,55.25,60.75,55.06,60.66,15163200,30.33  
2000-09-15,57.75,58.19,54.25,55.23,14095400,27.61  
2000-09-14,58.56,59.63,56.81,56.86,15241800,28.43  
2000-09-13,56.75,59.50,56.75,58.00,10932600,29.00  
2000-09-12,57.34,60.06,57.00,57.75,6722200,28.88  
2000-09-11,58.69,60.38,58.13,58.44,6699000,29.22  
2000-09-08,61.63,61.63,58.50,58.88,6984400,29.44  
2000-09-07,59.13,62.56,58.25,62.00,7770400,31.00  
2000-09-06,61.38,62.38,57.75,58.44,12700400,29.22  
2000-09-05,62.66,64.12,62.25,62.44,10669000,31.22  
2000-09-01,61.31,63.63,61.13,63.44,9181800,31.72  
2000-08-31,58.97,61.50,58.94,60.94,14988800,30.47  
2000-08-30,59.00,60.00,58.70,59.50,10199600,29.75  
2000-08-29,57.88,59.44,57.69,59.19,9546200,29.59  
2000-08-28,57.25,59.00,57.06,58.06,12822600,29.03  
2000-08-25,56.50,57.50,56.38,56.81,11947800,28.41  
2000-08-24,54.67,56.63,53.38,56.11,11109400,28.06  
2000-08-23,51.47,54.75,51.06,54.31,8470400,27.16  
2000-08-22,50.63,52.81,50.38,51.69,9889000,25.84  
2000-08-21,50.25,51.56,49.63,50.50,4803800,25.25  
2000-08-18,51.38,51.81,49.88,50.00,6798800,25.00  
2000-08-17,48.38,52.44,48.31,51.44,9683400,25.72  
2000-08-16,46.88,49.00,46.81,48.50,5137600,24.25  
2000-08-15,47.25,47.94,46.50,46.69,4089000,23.34  
2000-08-14,47.59,47.69,46.31,47.06,5603400,23.53  
2000-08-11,46.84,48.00,45.56,47.69,8503200,23.84  
2000-08-10,48.00,48.44,47.38,47.56,8995400,23.78  
2000-08-09,48.13,48.44,47.25,47.50,13569000,23.75

2000-08-08,47.94,48.00,46.31,46.75,6315400,23.38  
2000-08-07,47.88,49.06,47.19,47.94,6697200,23.97  
2000-08-04,49.47,51.25,46.31,47.38,9406800,23.69  
2000-08-03,45.56,48.06,44.25,48.00,12150000,24.00  
2000-08-02,49.00,49.94,47.19,47.25,5808800,23.62  
2000-08-01,50.31,51.16,49.25,49.31,4904600,24.66  
2000-07-31,49.16,51.63,48.75,50.81,5550000,25.41  
2000-07-28,52.28,52.50,46.88,48.31,8505400,24.16  
2000-07-27,50.00,53.25,49.88,52.00,10543800,26.00  
2000-07-26,49.84,51.25,49.25,50.06,7526200,25.03  
2000-07-25,50.31,50.63,49.06,50.06,7567200,25.03  
2000-07-24,52.56,52.88,47.50,48.69,14720600,24.34  
2000-07-21,54.36,55.63,52.94,53.56,7013200,26.78  
2000-07-20,55.00,57.06,54.13,55.13,16631800,27.57  
2000-07-19,55.19,56.81,51.75,52.69,16359600,26.34  
2000-07-18,58.50,58.88,56.88,57.25,11378200,28.62  
2000-07-17,58.25,58.81,57.13,58.31,9289000,29.16  
2000-07-14,57.13,59.00,56.88,57.69,6804400,28.84  
2000-07-13,58.50,60.63,54.75,56.50,15925600,28.25  
2000-07-12,58.13,58.94,56.38,58.88,8057600,29.44  
2000-07-11,57.00,59.25,55.44,56.94,12783200,28.47  
2000-07-10,54.09,58.25,53.75,57.13,14211000,28.57  
2000-07-07,52.59,54.81,52.13,54.44,9422600,27.22  
2000-07-06,52.50,52.94,49.63,51.81,11063800,25.91  
2000-07-05,53.25,55.19,50.75,51.63,9478800,25.82  
2000-07-03,52.13,54.31,52.13,53.31,2535000,26.66  
2000-06-30,52.81,54.94,51.69,52.38,11550000,26.19  
2000-06-29,53.06,53.94,51.06,51.25,7281200,25.62  
2000-06-28,53.31,55.38,51.50,54.44,10235000,27.22  
2000-06-27,53.78,55.50,51.63,51.75,7270600,25.88  
2000-06-26,52.50,54.75,52.13,54.13,6631000,27.07  
2000-06-23,53.78,54.63,50.81,51.69,7320400,25.84  
2000-06-22,55.75,57.63,53.56,53.75,16706200,26.88  
2000-06-21,50.50,56.94,50.31,55.63,17500000,27.82  
2000-06-20,98.50,103.94,98.37,101.25,17922000,25.31  
2000-06-19,90.56,97.87,89.81,96.62,14089200,24.16  
2000-06-16,93.50,93.75,89.06,91.19,10842400,22.80  
2000-06-15,91.25,93.37,89.00,92.37,8898800,23.09  
2000-06-14,94.69,96.25,90.12,90.44,9925200,22.61  
2000-06-13,91.19,94.69,88.19,94.50,12570000,23.62  
2000-06-12,96.37,96.44,90.87,91.19,10374400,22.80  
2000-06-09,96.75,97.94,94.37,95.75,9020000,23.94  
2000-06-08,97.62,98.50,93.12,94.81,8540800,23.70  
2000-06-07,93.62,97.00,91.62,96.56,12056800,24.14  
2000-06-06,91.97,96.75,90.31,92.87,18771200,23.22  
2000-06-05,93.31,95.25,89.69,91.31,11582000,22.83  
2000-06-02,93.75,99.75,89.00,92.56,28336400,23.14  
2000-06-01,81.75,89.56,80.37,89.12,32280000,22.28

2000-05-31,86.87,91.25,83.81,84.00,15483600,21.00  
2000-05-30,87.62,88.12,81.75,87.56,25481200,21.89  
2000-05-26,88.00,89.87,85.25,86.37,6486400,21.59  
2000-05-25,88.50,92.66,86.00,87.27,14530800,21.82  
2000-05-24,86.19,89.75,83.00,87.69,24248000,21.92  
2000-05-23,90.50,93.37,85.62,85.81,18488000,21.45  
2000-05-22,93.75,93.75,86.00,89.94,26995200,22.49  
2000-05-19,99.25,99.25,93.37,94.00,26459200,23.50  
2000-05-18,103.00,104.94,100.62,100.75,13365600,25.19  
2000-05-17,103.62,103.69,100.37,101.37,14227600,25.34  
2000-05-16,104.52,109.06,102.75,105.69,15736400,26.42  
2000-05-15,108.06,108.06,100.12,101.00,24252000,25.25  
2000-05-12,106.00,110.50,104.77,107.62,10962000,26.91  
2000-05-11,101.37,104.25,99.00,102.81,17852400,25.70  
2000-05-10,104.06,105.00,98.75,99.31,19127600,24.83  
2000-05-09,110.31,111.25,104.87,105.44,11685600,26.36  
2000-05-08,112.09,113.69,110.00,110.12,6605600,27.53  
2000-05-05,110.81,114.75,110.72,113.12,10160000,28.28  
2000-05-04,115.12,115.25,110.56,110.69,14284400,27.67  
2000-05-03,118.94,121.25,111.62,115.06,17500000,28.76  
2000-05-02,123.25,126.25,117.50,117.87,8446400,29.47  
2000-05-01,124.87,125.12,121.87,124.31,8100000,31.08  
2000-04-28,127.12,127.50,121.31,124.06,8932400,31.01  
2000-04-27,117.19,127.00,116.58,126.75,11678000,31.69  
2000-04-26,126.62,128.00,120.00,121.31,13117600,30.33  
2000-04-25,122.12,128.75,122.06,128.31,14002400,32.08  
2000-04-24,115.00,120.50,114.75,120.50,15845600,30.12  
2000-04-20,123.69,124.75,117.06,118.87,25806800,29.72  
2000-04-19,126.19,130.25,119.75,121.12,18586400,30.28  
2000-04-18,123.50,126.87,119.37,126.87,13962400,31.72  
2000-04-17,109.50,123.94,109.06,123.87,14642400,30.97  
2000-04-14,109.31,118.00,109.00,111.87,23845600,27.97  
2000-04-13,111.50,120.00,108.50,113.81,18923600,28.45  
2000-04-12,119.00,119.00,104.87,109.25,33618800,27.31  
2000-04-11,123.50,124.87,118.06,119.44,19368000,29.86  
2000-04-10,131.69,132.75,124.75,125.00,7592400,31.25  
2000-04-07,127.25,131.88,125.50,131.75,8668800,32.94  
2000-04-06,130.63,134.50,123.25,125.19,9290800,31.30  
2000-04-05,126.47,132.88,124.00,130.38,16359200,32.60  
2000-04-04,132.63,133.00,116.75,127.31,23596400,31.83  
2000-04-03,135.50,139.50,129.44,133.31,11742400,33.33  
2000-03-31,127.44,137.25,126.00,135.81,14457600,33.95  
2000-03-30,133.56,137.69,125.44,125.75,14800000,31.44  
2000-03-29,139.38,139.44,133.83,135.94,8568800,33.99  
2000-03-28,137.25,142.00,137.13,139.13,7253600,34.78  
2000-03-27,137.63,144.75,136.88,139.56,9976800,34.89  
2000-03-24,142.44,143.94,135.50,138.69,15962000,34.67  
2000-03-23,142.00,150.38,140.00,141.31,20098000,35.33

2000-03-22,132.78,144.38,131.56,144.19,20288800,36.05  
2000-03-21,122.56,136.75,121.62,134.94,18729200,33.74  
2000-03-20,123.50,126.25,122.37,123.00,7316400,30.75  
2000-03-17,120.12,125.00,119.62,125.00,10902400,31.25  
2000-03-16,117.31,122.00,114.50,121.56,13516800,30.39  
2000-03-15,115.62,120.25,114.12,116.25,15845200,29.06  
2000-03-14,121.22,124.25,114.00,114.25,15321200,28.56  
2000-03-13,122.12,126.50,119.50,121.31,10864400,30.33  
2000-03-10,121.69,127.94,121.00,125.75,8900800,31.44  
2000-03-09,120.87,125.00,118.25,122.25,9884400,30.56  
2000-03-08,122.87,123.94,118.56,122.00,9690800,30.50  
2000-03-07,126.44,127.44,121.12,122.87,9767600,30.72  
2000-03-06,126.00,129.13,125.00,125.69,7520000,31.42  
2000-03-03,124.87,128.23,120.00,128.00,11565200,32.00  
2000-03-02,127.00,127.94,120.69,122.00,11136800,30.50  
2000-03-01,118.56,132.06,118.50,130.31,38478000,32.58  
2000-02-29,113.56,117.25,112.56,114.62,13186800,28.66  
2000-02-28,110.12,115.00,108.37,113.25,11729200,28.31  
2000-02-25,114.81,117.00,110.12,110.37,8908000,27.59  
2000-02-24,117.31,119.12,111.75,115.20,13446400,28.80  
2000-02-23,113.23,119.00,111.00,116.25,16905600,29.06  
2000-02-22,110.12,116.94,106.69,113.81,15083200,28.45  
2000-02-18,114.62,115.37,110.87,111.25,8346800,27.81  
2000-02-17,115.19,115.50,113.12,114.87,10350000,28.72  
2000-02-16,117.75,118.12,112.12,114.12,13525200,28.53  
2000-02-15,115.25,119.94,115.19,119.00,17363600,29.75  
2000-02-14,109.31,115.87,108.62,115.81,13130000,28.95  
2000-02-11,113.62,114.12,108.25,108.75,7592000,27.19  
2000-02-10,112.87,113.87,110.00,113.50,10832400,28.38  
2000-02-09,114.12,117.12,112.44,112.62,10698000,28.16  
2000-02-08,114.00,116.12,111.25,114.87,14613600,28.72  
2000-02-07,108.00,114.25,105.94,114.06,15770800,28.51  
2000-02-04,103.94,110.00,103.62,108.00,15206800,27.00  
2000-02-03,100.31,104.25,100.25,103.31,16977600,25.83  
2000-02-02,100.75,102.12,97.00,98.81,16588800,24.70  
2000-02-01,104.00,105.00,100.00,100.25,11380000,25.06  
2000-01-31,101.00,103.87,94.50,103.75,25071200,25.94  
2000-01-28,108.19,110.87,100.62,101.62,15142000,25.41  
2000-01-27,108.81,113.00,107.00,110.00,12163600,27.50  
2000-01-26,110.00,114.19,109.75,110.19,13131200,27.55  
2000-01-25,105.00,113.12,102.37,112.25,17775200,28.06  
2000-01-24,108.44,112.75,105.12,106.25,15760000,26.56  
2000-01-21,114.25,114.25,110.19,111.31,17729200,27.83  
2000-01-20,115.50,121.50,113.50,113.50,65418800,28.38  
2000-01-19,105.62,108.75,103.37,106.56,21358000,26.64  
2000-01-18,101.00,106.00,100.44,103.94,16421200,25.99  
2000-01-14,100.00,102.25,99.37,100.44,13954400,25.11  
2000-01-13,94.48,98.75,92.50,96.75,36882400,24.19

2000-01-12,95.00,95.50,86.50,87.19,34870800,21.80  
2000-01-11,95.94,99.37,90.50,92.75,15775200,23.19  
2000-01-10,102.00,102.25,94.75,97.75,18059200,24.44  
2000-01-07,96.50,101.00,95.50,99.50,16463200,24.88  
2000-01-06,106.12,107.00,95.00,95.00,27443200,23.75  
2000-01-05,103.75,110.56,103.00,104.00,27818000,26.00  
2000-01-04,108.25,110.62,101.19,102.50,18310000,25.62  
2000-01-03,104.87,112.50,101.69,111.94,19144400,27.99  
1999-12-31,100.94,102.87,99.50,102.81,5856400,25.70  
1999-12-30,102.19,104.12,99.62,100.31,7419200,25.08  
1999-12-29,96.81,102.19,95.50,100.69,10161200,25.17  
1999-12-28,99.12,99.62,95.00,98.19,8843200,24.55  
1999-12-27,104.37,104.44,99.25,99.31,6022000,24.83  
1999-12-23,101.81,104.25,101.06,103.50,8218800,25.88  
1999-12-22,102.87,104.56,98.75,99.94,11682000,24.99  
1999-12-21,98.19,103.06,97.94,102.50,11000000,25.62  
1999-12-20,99.56,99.62,96.62,98.00,10155200,24.50  
1999-12-17,100.87,102.00,98.50,100.00,17700800,25.00  
1999-12-16,98.00,98.37,94.00,98.31,16568000,24.58  
1999-12-15,93.25,97.25,91.06,97.00,22254400,24.25  
1999-12-14,98.37,99.75,94.75,94.87,15570800,23.72  
1999-12-13,102.39,102.50,98.94,99.00,18931200,24.75  
1999-12-10,105.31,109.25,99.00,103.00,22786800,25.75  
1999-12-09,111.00,111.00,100.87,105.25,30555600,26.31  
1999-12-08,116.25,117.87,109.50,110.06,14730800,27.51  
1999-12-07,116.56,118.00,114.00,117.81,15901200,29.45  
1999-12-06,114.56,117.31,111.44,116.00,16688000,29.00  
1999-12-03,112.19,115.56,111.87,115.00,23151200,28.75  
1999-12-02,103.12,110.62,101.75,110.19,20275600,27.55  
1999-12-01,101.00,104.50,100.06,103.06,22098000,25.76  
1999-11-30,98.12,103.75,97.37,97.87,30132400,24.47  
1999-11-29,94.25,99.75,93.25,94.56,16586800,23.64  
1999-11-26,94.75,95.50,94.12,95.06,4737600,23.76  
1999-11-24,93.00,95.00,91.69,94.69,7683600,23.67  
1999-11-23,91.75,95.25,88.50,92.81,19406400,23.20  
1999-11-22,91.75,91.75,89.25,90.62,7242400,22.66  
1999-11-19,89.50,92.87,88.06,92.44,11162000,23.11  
1999-11-18,91.06,91.12,88.44,89.62,13043600,22.41  
1999-11-17,90.69,94.75,90.00,90.25,13032000,22.56  
1999-11-16,90.00,91.75,88.50,91.19,8370000,22.80  
1999-11-15,89.62,92.87,88.50,89.44,9283600,22.36  
1999-11-12,91.94,92.00,87.37,90.62,9970000,22.66  
1999-11-11,91.59,92.62,89.87,92.25,9660000,23.06  
1999-11-10,88.25,93.25,88.12,91.44,20661200,22.86  
1999-11-09,94.37,94.50,88.00,89.62,28910000,22.41  
1999-11-08,87.75,97.73,86.75,96.37,33962400,24.09  
1999-11-05,84.62,88.37,84.00,88.31,14889200,22.08  
1999-11-04,82.06,85.37,80.62,83.62,13549200,20.91

1999-11-03,81.62,83.25,81.00,81.50,11736800,20.38  
1999-11-02,78.00,81.69,77.31,80.25,14268800,20.06  
1999-11-01,80.00,80.69,77.37,77.62,9965600,19.41  
1999-10-29,78.81,81.06,78.81,80.12,18680800,20.03  
1999-10-28,77.06,79.00,76.06,77.87,18005200,19.47  
1999-10-27,74.37,76.62,73.44,76.37,15837600,19.09  
1999-10-26,74.94,75.50,73.31,75.06,12924400,18.76  
1999-10-25,74.25,76.12,73.75,74.50,11677600,18.62  
1999-10-22,77.12,77.25,73.37,73.94,14995200,18.49  
1999-10-21,72.56,77.06,72.37,76.12,28347600,19.03  
1999-10-20,70.00,75.25,70.00,75.12,38633600,18.78  
1999-10-19,71.62,75.00,68.44,68.50,36521200,17.12  
1999-10-18,73.87,74.25,71.12,73.25,27733600,18.31  
1999-10-15,71.12,75.81,70.19,74.56,41910000,18.64  
1999-10-14,69.25,73.31,69.00,73.19,67822400,18.30  
1999-10-13,66.62,69.50,63.75,64.03,22752000,16.01  
1999-10-12,67.87,69.62,67.00,67.69,20142000,16.92  
1999-10-11,66.00,68.25,66.00,66.69,9418000,16.67  
1999-10-08,66.19,66.31,63.50,65.56,13689200,16.39  
1999-10-07,68.44,68.62,64.87,66.37,21660800,16.59  
1999-10-06,69.37,69.62,67.00,67.19,28726400,16.80  
1999-10-05,65.62,68.12,64.75,67.94,29100800,16.99  
1999-10-04,62.38,64.87,62.38,64.56,16408800,16.14  
1999-10-01,62.13,62.44,59.50,61.72,21977600,15.43  
1999-09-30,59.56,64.19,59.25,63.31,32449200,15.83  
1999-09-29,60.25,61.25,58.00,59.06,23493600,14.77  
1999-09-28,61.50,62.00,57.44,59.63,50542400,14.91  
1999-09-27,66.37,66.75,61.19,61.31,33877600,15.33  
1999-09-24,63.38,67.02,63.00,64.94,42148800,16.24  
1999-09-23,71.12,71.25,63.00,63.31,40853200,15.83  
1999-09-22,69.75,71.62,69.02,70.31,40132000,17.58  
1999-09-21,73.19,73.25,69.00,69.25,119931200,17.31  
1999-09-20,77.00,80.12,76.87,79.06,16326400,19.76  
1999-09-17,77.31,77.75,76.25,76.94,9915600,19.24  
1999-09-16,76.06,78.06,73.87,76.81,15793600,19.20  
1999-09-15,78.87,79.12,75.25,75.37,12843200,18.84  
1999-09-14,74.72,78.50,74.69,77.81,13883200,19.45  
1999-09-13,77.06,77.06,74.81,75.00,9000000,18.75  
1999-09-10,76.00,77.69,74.69,77.44,16398000,19.36  
1999-09-09,75.50,75.94,73.87,75.56,19093600,18.89  
1999-09-08,76.19,77.69,74.50,74.50,27233600,18.62  
1999-09-07,73.75,77.94,73.50,76.37,35177600,19.09  
1999-09-03,71.94,75.25,70.50,73.50,58403600,18.38  
1999-09-02,67.62,71.44,66.87,70.56,31975200,17.64  
1999-09-01,67.00,68.81,66.00,68.62,28168000,17.16  
1999-08-31,62.59,65.87,62.06,65.25,22675200,16.31  
1999-08-30,65.00,65.00,62.00,62.06,12033200,15.52  
1999-08-27,62.75,65.00,62.69,64.75,15980000,16.19

1999-08-26,61.13,63.13,61.13,62.13,14449200,15.53  
1999-08-25,60.69,61.50,60.13,61.38,10553600,15.35  
1999-08-24,60.38,60.75,59.94,60.38,17948000,15.10  
1999-08-23,59.38,61.38,59.31,60.75,12709200,15.19  
1999-08-20,59.25,59.38,58.19,59.19,11730800,14.80  
1999-08-19,59.81,60.50,58.56,58.75,19645600,14.69  
1999-08-18,60.06,62.00,59.63,60.13,16743200,15.03  
1999-08-17,60.31,60.38,58.94,60.31,11474400,15.08  
1999-08-16,59.81,60.69,59.50,60.50,9896400,15.12  
1999-08-13,60.63,62.00,59.88,60.06,10668800,15.02  
1999-08-12,59.06,61.38,58.63,60.00,23806400,15.00  
1999-08-11,56.00,59.75,55.94,59.69,30374400,14.92  
1999-08-10,54.00,56.00,53.63,55.38,14879200,13.85  
1999-08-09,54.34,55.19,54.25,54.44,8338000,13.61  
1999-08-06,54.06,55.31,53.50,54.13,15575600,13.53  
1999-08-05,53.50,54.88,52.13,54.75,11541200,13.69  
1999-08-04,55.19,55.88,53.25,53.81,13279200,13.45  
1999-08-03,56.75,57.44,53.63,55.25,13176800,13.81  
1999-08-02,55.63,58.00,55.50,55.75,12958000,13.94  
1999-07-30,54.50,56.13,54.50,55.69,13685600,13.92  
1999-07-29,53.38,55.25,53.13,53.88,9860000,13.47  
1999-07-28,53.88,55.38,53.00,54.38,11762000,13.60  
1999-07-27,52.63,53.94,52.50,53.69,14150800,13.42  
1999-07-26,52.88,53.00,50.88,50.94,12555200,12.73  
1999-07-23,52.81,53.75,52.69,53.31,8192000,13.33  
1999-07-22,53.63,53.88,51.13,52.38,14529200,13.10  
1999-07-21,54.06,55.44,52.88,54.06,25653600,13.52  
1999-07-20,54.56,55.50,52.75,52.88,15804400,13.22  
1999-07-19,53.94,55.81,52.31,54.44,20050000,13.61  
1999-07-16,53.63,54.50,53.00,53.06,14705600,13.27  
1999-07-15,55.88,55.94,51.31,53.25,60433600,13.31  
1999-07-14,54.50,56.63,54.50,55.94,22320000,13.98  
1999-07-13,53.50,54.19,52.88,53.69,10136800,13.42  
1999-07-12,55.50,55.63,54.19,54.50,10862000,13.62  
1999-07-09,54.50,55.63,53.00,55.63,21750000,13.91  
1999-07-08,51.13,55.06,50.88,54.50,58058000,13.62  
1999-07-07,47.38,50.75,47.00,49.88,39264400,12.47  
1999-07-06,45.94,47.63,45.81,47.38,16212000,11.85  
1999-07-02,45.53,46.88,45.19,46.31,4426800,11.58  
1999-07-01,46.31,46.56,45.25,45.31,5334400,11.33  
1999-06-30,45.69,46.94,44.94,46.31,12270800,11.58  
1999-06-29,42.72,45.56,42.63,45.38,13599200,11.35  
1999-06-28,42.44,42.94,42.38,42.56,9938800,10.64  
1999-06-25,42.50,42.69,42.06,42.19,10518800,10.55  
1999-06-24,43.63,43.63,42.25,42.31,15498000,10.58  
1999-06-23,45.06,45.09,43.56,43.69,18994400,10.92  
1999-06-22,46.31,46.94,45.38,45.38,5415600,11.35  
1999-06-21,47.00,47.25,46.00,46.50,4842000,11.62



1999-06-18,45.38,47.25,45.19,47.13,7448000,11.78  
1999-06-17,47.63,48.00,45.75,46.38,8022400,11.60  
1999-06-16,46.38,48.06,46.38,47.94,8056800,11.98  
1999-06-15,45.19,46.75,45.13,46.06,4666400,11.52  
1999-06-14,46.50,46.63,45.13,45.44,5615600,11.36  
1999-06-11,48.13,48.50,46.25,46.44,6613600,11.61  
1999-06-10,47.88,48.25,47.31,48.13,11325200,12.03  
1999-06-09,47.44,48.50,47.44,48.44,12655200,12.11  
1999-06-08,48.75,48.81,47.56,47.69,11203200,11.92  
1999-06-07,48.13,49.00,47.50,48.94,14949200,12.23  
1999-06-04,47.63,48.19,47.25,48.13,13171200,12.03  
1999-06-03,46.88,48.00,46.81,47.44,17450800,11.86  
1999-06-02,44.50,47.94,44.00,46.56,18614400,11.64  
1999-06-01,45.00,45.31,44.38,44.81,16479200,11.20  
1999-05-28,43.31,44.31,43.13,44.06,7196400,11.02  
1999-05-27,43.19,43.75,42.69,43.50,12042400,10.88  
1999-05-26,41.75,44.38,41.25,44.06,15642000,11.02  
1999-05-25,41.56,42.44,40.94,41.50,13095200,10.38  
1999-05-24,43.63,44.31,41.88,41.94,9340800,10.48  
1999-05-21,43.00,44.31,42.56,43.94,16555200,10.98  
1999-05-20,45.44,45.75,42.50,42.50,14940000,10.62  
1999-05-19,45.50,45.75,43.50,45.19,10660000,11.30  
1999-05-18,44.81,46.00,44.38,45.25,14954400,11.31  
1999-05-17,43.75,44.69,43.00,44.38,7531200,11.10  
1999-05-14,45.13,45.81,44.38,44.38,8102000,11.10  
1999-05-13,46.44,46.81,45.50,46.19,10573600,11.55  
1999-05-12,44.88,46.50,44.13,46.50,14129200,11.62  
1999-05-11,44.88,46.19,43.56,44.75,16388800,11.19  
1999-05-10,46.75,46.94,44.63,45.25,14055600,11.31  
1999-05-07,44.63,45.88,42.75,45.88,15528800,11.47  
1999-05-06,46.56,46.88,44.00,44.50,15486400,11.12  
1999-05-05,46.31,47.00,44.63,47.00,20694400,11.75  
1999-05-04,48.25,48.63,46.19,46.50,28980000,11.62  
1999-05-03,46.06,50.00,45.75,49.56,52535600,12.39  
1999-04-30,44.00,47.13,44.00,46.00,52596400,11.50  
1999-04-29,43.25,44.38,41.78,43.00,28206400,10.75  
1999-04-28,44.63,45.69,43.63,44.06,34122000,11.02  
1999-04-27,43.00,45.81,43.00,45.75,75225200,11.44  
1999-04-26,39.50,41.25,39.25,40.94,33152000,10.23  
1999-04-23,36.25,39.44,36.25,39.19,37402400,9.80  
1999-04-22,35.06,36.63,35.06,36.38,26454400,9.10  
1999-04-21,34.00,34.38,33.50,34.38,12566800,8.60  
1999-04-20,33.88,34.75,33.50,34.06,18725600,8.52  
1999-04-19,35.69,36.00,33.50,33.88,32923200,8.47  
1999-04-16,35.88,36.06,35.25,35.44,17945600,8.86  
1999-04-15,35.38,36.19,34.31,35.75,61960000,8.94  
1999-04-14,35.25,37.06,35.00,35.53,24323600,8.88  
1999-04-13,36.31,36.81,34.50,34.63,14732400,8.66

1999-04-12,35.00,36.88,34.88,36.25,14145600,9.06  
1999-04-09,36.25,37.25,35.94,36.75,9608000,9.19  
1999-04-08,36.88,37.06,36.00,36.88,10600800,9.22  
1999-04-07,38.06,38.25,36.38,37.13,14723200,9.28  
1999-04-06,36.81,38.31,36.81,38.00,22455200,9.50  
1999-04-05,36.00,37.88,36.00,37.06,16474400,9.27  
1999-04-01,36.06,36.69,35.75,36.06,9381200,9.02  
1999-03-31,36.38,37.13,35.88,35.94,15086400,8.98  
1999-03-30,35.00,36.38,35.00,35.88,19806800,8.97  
1999-03-29,33.50,35.44,33.44,35.38,20337600,8.85  
1999-03-26,33.75,33.81,33.00,33.25,9080000,8.31  
1999-03-25,34.38,34.88,33.38,33.81,14286800,8.45  
1999-03-24,33.25,33.75,32.50,33.69,14297600,8.42  
1999-03-23,34.44,34.44,32.75,33.00,14842000,8.25  
1999-03-22,34.00,35.19,32.94,35.06,21200800,8.77  
1999-03-19,35.94,36.00,32.88,33.50,19161200,8.38  
1999-03-18,34.38,35.63,34.25,35.50,8126800,8.88  
1999-03-17,35.94,36.06,33.94,34.06,13084400,8.52  
1999-03-16,35.00,35.56,34.94,35.50,14302000,8.88  
1999-03-15,33.31,35.00,33.25,34.06,12586800,8.52  
1999-03-12,32.31,33.50,32.31,33.19,9700000,8.30  
1999-03-11,32.25,33.88,32.00,32.19,16936800,8.05  
1999-03-10,34.19,34.19,32.44,32.56,19526800,8.14  
1999-03-09,34.31,34.38,33.50,34.13,11427600,8.53  
1999-03-08,33.25,34.69,33.19,34.38,19682000,8.60  
1999-03-05,34.31,34.31,32.38,33.19,16735600,8.30  
1999-03-04,34.50,34.50,32.38,33.44,13137600,8.36  
1999-03-03,34.75,35.13,33.50,34.19,10497600,8.55  
1999-03-02,34.13,35.31,33.75,34.63,24414400,8.66  
1999-03-01,34.81,34.81,33.63,33.75,17435200,8.44  
1999-02-26,36.50,37.00,34.50,34.81,23847600,8.70  
1999-02-25,37.31,37.69,36.50,36.94,9455600,9.23  
1999-02-24,38.81,39.00,37.38,37.44,7620000,9.36  
1999-02-23,38.56,39.56,37.94,38.44,11521200,9.61  
1999-02-22,37.38,38.88,37.25,38.44,10682000,9.61  
1999-02-19,36.25,37.69,36.19,37.19,12938800,9.30  
1999-02-18,37.56,37.88,35.56,36.00,17876400,9.00  
1999-02-17,38.13,38.69,36.94,37.00,10581200,9.25  
1999-02-16,38.88,38.88,37.88,38.31,10723600,9.58  
1999-02-12,39.13,39.13,37.00,37.69,15339200,9.42  
1999-02-11,38.75,39.75,38.56,39.63,20200000,9.91  
1999-02-10,36.88,38.69,36.00,38.31,20135200,9.58  
1999-02-09,37.94,39.06,37.06,37.19,25042000,9.30  
1999-02-08,36.69,37.94,36.25,37.75,16723600,9.44  
1999-02-05,38.25,38.38,35.50,36.31,27778000,9.08  
1999-02-04,40.19,40.25,37.75,37.88,16565600,9.47  
1999-02-03,39.00,40.56,38.75,40.19,12108000,10.05  
1999-02-02,40.38,40.75,39.00,39.19,10975600,9.80

1999-02-01,41.69,41.94,40.31,40.94,9962000,10.23  
1999-01-29,41.19,41.56,40.00,41.19,8684400,10.30  
1999-01-28,40.88,41.25,40.31,40.88,12015600,10.22  
1999-01-27,41.00,41.38,39.94,40.13,13053200,10.03  
1999-01-26,39.94,40.88,39.63,40.50,20002400,10.12  
1999-01-25,39.25,39.56,38.81,39.38,13763200,9.85  
1999-01-22,37.69,39.50,37.06,38.75,12365200,9.69  
1999-01-21,40.44,40.56,37.50,38.81,21449200,9.70  
1999-01-20,41.06,42.00,40.50,40.56,27806800,10.14  
1999-01-19,41.94,42.31,40.38,40.88,19116400,10.22  
1999-01-15,41.81,42.13,40.00,41.31,35933600,10.33  
1999-01-14,45.50,46.00,41.06,41.38,61570000,10.35  
1999-01-13,42.88,47.31,42.25,46.50,37434400,11.62  
1999-01-12,46.31,46.63,44.13,46.13,29330000,11.53  
1999-01-11,45.75,46.06,44.88,45.88,20054400,11.47  
1999-01-08,46.56,46.88,44.00,45.00,24246400,11.25  
1999-01-07,42.25,45.06,42.13,45.00,51056800,11.25  
1999-01-06,44.13,44.13,41.00,41.75,48165200,10.44  
1999-01-05,41.94,43.94,41.50,43.31,50362000,10.83  
1999-01-04,42.13,42.25,40.00,41.25,34049200,10.31  
1998-12-31,40.50,41.38,39.50,40.94,9716400,10.23  
1998-12-30,40.13,41.13,40.00,40.06,8498000,10.02  
1998-12-29,41.13,41.50,40.25,40.81,13853200,10.20  
1998-12-28,39.00,41.13,39.00,40.88,25917600,10.22  
1998-12-24,39.88,40.00,39.19,39.25,7155200,9.81  
1998-12-23,38.63,40.50,38.38,39.81,44124400,9.95  
1998-12-22,36.38,38.13,36.00,38.00,41111200,9.50  
1998-12-21,35.38,35.63,34.25,35.06,12769200,8.77  
1998-12-18,33.38,35.38,33.25,35.19,28283200,8.80  
1998-12-17,32.94,33.75,32.75,33.44,11812000,8.36  
1998-12-16,33.75,34.19,32.63,32.81,13375200,8.20  
1998-12-15,32.75,33.63,32.75,33.56,9462000,8.39  
1998-12-14,32.88,33.31,32.25,32.50,17925200,8.12  
1998-12-11,32.25,34.00,32.00,33.75,24644400,8.44  
1998-12-10,32.69,32.94,31.87,32.00,13980800,8.00  
1998-12-09,32.69,32.88,31.62,32.00,21184400,8.00  
1998-12-08,33.94,33.94,32.00,32.06,24295200,8.02  
1998-12-07,33.38,33.75,32.75,33.75,20255600,8.44  
1998-12-04,34.31,34.44,32.00,32.75,25765200,8.19  
1998-12-03,36.31,36.50,33.63,33.69,22380800,8.42  
1998-12-02,34.13,36.88,33.50,36.00,34382400,9.00  
1998-12-01,32.00,34.81,31.62,34.13,30941200,8.53  
1998-11-30,34.56,34.81,31.75,31.94,20060800,7.99  
1998-11-27,35.06,35.13,34.75,35.06,5483600,8.77  
1998-11-25,35.88,36.06,34.94,35.13,10855600,8.78  
1998-11-24,36.13,36.75,35.75,35.94,11430800,8.98  
1998-11-23,35.56,36.81,35.19,36.25,20642000,9.06  
1998-11-20,36.44,36.75,34.75,35.31,14268000,8.83

1998-11-19,35.50,37.19,35.44,35.75,12385200,8.94  
1998-11-18,35.19,36.00,34.88,35.44,11781200,8.86  
1998-11-17,35.75,35.81,34.75,34.81,7529200,8.70  
1998-11-16,35.94,36.75,35.44,36.00,13740800,9.00  
1998-11-13,34.94,36.06,34.69,35.69,28301200,8.92  
1998-11-12,33.13,34.44,32.88,34.00,21261200,8.50  
1998-11-11,35.75,35.81,32.75,33.56,33895200,8.39  
1998-11-10,36.19,36.25,35.00,35.13,31576800,8.78  
1998-11-09,37.69,38.13,35.50,36.63,23622000,9.16  
1998-11-06,37.88,38.25,37.25,38.06,28496800,9.52  
1998-11-05,38.38,39.38,38.06,38.19,21684400,9.55  
1998-11-04,38.56,39.13,38.13,38.69,22438000,9.67  
1998-11-03,37.38,38.25,37.31,37.81,13247600,9.45  
1998-11-02,37.50,37.75,37.25,37.63,9076400,9.41  
1998-10-30,36.81,37.50,36.25,37.13,11358000,9.28  
1998-10-29,36.44,37.44,35.81,36.44,12321200,9.11  
1998-10-28,35.25,37.00,35.13,36.81,13006400,9.20  
1998-10-27,38.00,38.94,35.06,35.25,19233200,8.81  
1998-10-26,36.06,37.75,35.50,37.44,17013600,9.36  
1998-10-23,36.75,36.88,35.13,35.50,12732400,8.88  
1998-10-22,36.88,37.63,36.25,36.75,11343200,9.19  
1998-10-21,36.75,37.44,35.75,37.13,15390000,9.28  
1998-10-20,37.94,38.19,36.00,36.06,13649200,9.02  
1998-10-19,36.69,38.06,35.88,37.50,17010000,9.38  
1998-10-16,37.13,38.06,36.50,36.69,21998000,9.17  
1998-10-15,36.25,37.25,35.50,36.63,30037600,9.16  
1998-10-14,39.75,41.31,36.81,37.38,81445600,9.35  
1998-10-13,38.06,39.19,36.00,38.75,33646400,9.69  
1998-10-12,37.50,38.44,36.56,37.44,22250000,9.36  
1998-10-09,31.75,35.25,30.75,35.13,23880000,8.78  
1998-10-08,31.00,31.19,28.50,30.81,24623200,7.70  
1998-10-07,32.38,33.31,31.87,31.94,16920000,7.99  
1998-10-06,33.69,34.31,32.50,32.56,14281200,8.14  
1998-10-05,34.00,34.56,31.50,32.19,19726800,8.05  
1998-10-02,35.50,36.25,34.13,35.06,16998800,8.77  
1998-10-01,36.75,38.00,35.38,35.69,13234400,8.92  
1998-09-30,38.75,39.25,38.00,38.13,5976800,9.53  
1998-09-29,39.06,40.00,38.13,39.50,10907600,9.88  
1998-09-28,39.75,40.19,38.00,39.06,14501200,9.77  
1998-09-25,38.19,39.19,37.63,38.75,8172000,9.69  
1998-09-24,37.88,39.56,37.75,38.50,17246800,9.62  
1998-09-23,37.25,38.38,36.56,38.31,10284400,9.58  
1998-09-22,37.13,37.63,36.38,37.00,9218800,9.25  
1998-09-21,35.69,36.94,35.31,36.94,10570800,9.23  
1998-09-18,36.06,36.75,35.56,36.75,10904400,9.19  
1998-09-17,36.06,37.13,35.88,36.00,9627600,9.00  
1998-09-16,38.63,38.75,37.00,37.31,9248800,9.33  
1998-09-15,36.75,38.56,36.50,38.19,15492000,9.55

1998-09-14,38.25,38.81,37.13,37.19,8837600,9.30  
1998-09-11,38.50,39.63,36.88,37.63,12593600,9.41  
1998-09-10,36.25,38.25,35.75,38.13,18826800,9.53  
1998-09-09,38.06,38.13,37.00,37.38,12683200,9.35  
1998-09-08,38.00,38.25,36.75,38.25,14400000,9.56  
1998-09-04,35.50,36.44,33.75,35.13,13493200,8.78  
1998-09-03,35.00,35.13,34.00,34.63,14653200,8.66  
1998-09-02,35.50,37.38,35.25,35.56,30122400,8.89  
1998-09-01,31.37,35.38,30.62,34.13,31060000,8.53  
1998-08-31,34.75,34.88,31.00,31.19,31012400,7.80  
1998-08-28,37.13,38.50,34.13,34.19,33303200,8.55  
1998-08-27,39.25,39.25,35.63,37.50,39813600,9.38  
1998-08-26,39.88,41.13,39.50,40.38,14538000,10.10  
1998-08-25,42.38,42.38,40.31,40.81,17709200,10.20  
1998-08-24,43.44,43.50,40.13,41.19,21810000,10.30  
1998-08-21,40.00,43.56,39.00,43.00,29054400,10.75  
1998-08-20,41.00,41.13,40.25,40.63,14018000,10.16  
1998-08-19,43.50,43.75,41.00,41.00,17377600,10.25  
1998-08-18,42.44,43.38,42.25,42.56,21642000,10.64  
1998-08-17,41.00,42.81,39.88,41.94,33248800,10.48  
1998-08-14,40.69,40.75,39.50,40.50,16110000,10.12  
1998-08-13,39.94,40.75,39.38,39.44,13976800,9.86  
1998-08-12,39.75,40.94,39.48,40.06,24654400,10.02  
1998-08-11,37.75,41.00,37.38,39.00,62860000,9.75  
1998-08-10,36.31,38.06,36.25,37.94,17455600,9.48  
1998-08-07,37.19,37.38,36.00,36.50,10645600,9.12  
1998-08-06,35.06,36.88,34.88,36.88,15678800,9.22  
1998-08-05,33.75,36.00,33.50,36.00,16226800,9.00  
1998-08-04,35.50,36.00,34.00,34.19,10506800,8.55  
1998-08-03,34.25,35.56,33.25,35.13,10786800,8.78  
1998-07-31,36.63,36.75,34.50,34.63,6550800,8.66  
1998-07-30,35.81,36.75,35.50,36.50,12950000,9.12  
1998-07-29,33.75,35.88,33.69,35.13,16006800,8.78  
1998-07-28,34.06,34.63,33.00,33.63,8054400,8.41  
1998-07-27,34.25,34.88,33.25,34.44,7657600,8.61  
1998-07-24,35.38,35.50,33.81,34.69,9693600,8.67  
1998-07-23,34.81,35.63,34.75,34.94,9040800,8.73  
1998-07-22,34.94,35.63,34.25,35.00,10040800,8.75  
1998-07-21,36.13,37.00,35.56,35.63,11772400,8.91  
1998-07-20,36.56,36.63,35.50,36.25,13727600,9.06  
1998-07-17,37.25,37.25,36.19,36.88,22486400,9.22  
1998-07-16,37.88,38.13,35.75,37.50,91497600,9.38  
1998-07-15,33.69,34.69,33.50,34.44,21253600,8.61  
1998-07-14,33.94,34.00,33.13,33.44,19607600,8.36  
1998-07-13,31.94,34.13,31.87,33.94,25566400,8.48  
1998-07-10,32.19,32.63,31.75,32.06,10806800,8.02  
1998-07-09,32.94,33.63,31.44,31.69,20256400,7.92  
1998-07-08,30.75,32.94,30.69,32.56,33334400,8.14

1998-07-07,30.37,30.87,30.00,30.50,8637600,7.62  
1998-07-06,29.50,30.37,29.12,30.37,9697600,7.59  
1998-07-02,29.69,30.06,29.00,29.00,10650800,7.25  
1998-07-01,28.87,30.00,28.50,29.94,11228800,7.49  
1998-06-30,28.62,28.81,28.12,28.69,4681200,7.17  
1998-06-29,28.25,28.81,28.06,28.69,5943600,7.17  
1998-06-26,28.50,28.62,27.75,28.19,3973200,7.05  
1998-06-25,28.56,28.81,28.31,28.56,6856400,7.14  
1998-06-24,27.75,28.62,27.31,28.25,9788800,7.06  
1998-06-23,27.44,28.12,27.25,27.81,8258800,6.95  
1998-06-22,27.00,27.56,26.75,27.37,4809200,6.84  
1998-06-19,27.37,27.44,26.75,27.06,4931200,6.76  
1998-06-18,27.75,28.06,27.19,27.31,4288800,6.83  
1998-06-17,28.00,28.56,27.94,28.12,6687600,7.03  
1998-06-16,27.69,28.12,27.31,28.00,4649200,7.00  
1998-06-15,27.25,28.25,27.25,27.50,4881200,6.88  
1998-06-12,27.62,28.25,27.37,28.12,8014400,7.03  
1998-06-11,28.19,28.62,27.81,27.81,6451200,6.95  
1998-06-10,28.00,29.00,27.62,28.06,8202000,7.01  
1998-06-09,27.37,28.50,27.37,28.25,9852400,7.06  
1998-06-08,27.00,27.69,26.81,27.25,4523600,6.81  
1998-06-05,26.87,27.25,26.37,26.87,4406800,6.72  
1998-06-04,26.62,26.87,25.81,26.81,5585600,6.70  
1998-06-03,27.12,27.25,26.19,26.31,5196800,6.58  
1998-06-02,26.44,27.31,26.00,26.87,6405600,6.72  
1998-06-01,26.50,27.62,25.62,26.25,11427600,6.56  
1998-05-29,27.50,27.56,26.44,26.62,7751200,6.66  
1998-05-28,26.75,27.87,26.75,27.44,10672000,6.86  
1998-05-27,25.69,26.81,25.62,26.75,13233200,6.69  
1998-05-26,28.06,28.25,26.62,26.69,11143200,6.67  
1998-05-22,28.75,28.75,27.31,27.87,9522000,6.97  
1998-05-21,29.56,29.69,28.62,28.87,4700000,7.22  
1998-05-20,29.62,29.87,28.75,29.56,6810000,7.39  
1998-05-19,28.94,29.44,28.81,29.37,7815200,7.34  
1998-05-18,29.37,29.56,28.37,28.50,8310800,7.12  
1998-05-15,30.06,30.37,29.25,29.56,9743600,7.39  
1998-05-14,30.37,30.44,29.75,30.06,5815600,7.51  
1998-05-13,30.06,30.81,29.62,30.44,11245600,7.61  
1998-05-12,30.56,30.75,29.94,30.12,9212000,7.53  
1998-05-11,30.87,31.62,30.75,30.94,23768000,7.74  
1998-05-08,30.06,30.50,29.94,30.44,9690000,7.61  
1998-05-07,30.56,30.62,29.87,30.19,19761200,7.55  
1998-05-06,29.87,30.44,29.25,30.31,32056400,7.58  
1998-05-05,29.25,29.87,29.12,29.69,14982400,7.42  
1998-05-04,28.87,29.50,28.87,29.06,20419200,7.26  
1998-05-01,27.50,28.25,26.87,28.00,6582000,7.00  
1998-04-30,27.37,27.62,27.06,27.37,6442000,6.84  
1998-04-29,26.94,27.44,26.75,27.00,6774400,6.75

1998-04-28,27.87,28.00,26.25,26.94,8487600,6.74  
1998-04-27,26.75,27.75,26.75,27.75,14655600,6.94  
1998-04-24,27.75,28.25,27.50,27.94,7708000,6.99  
1998-04-23,27.44,29.00,27.19,27.69,16983200,6.92  
1998-04-22,28.75,29.00,27.50,27.50,10186400,6.88  
1998-04-21,29.06,29.12,28.50,29.00,12446400,7.25  
1998-04-20,27.62,29.50,27.56,29.00,18498800,7.25  
1998-04-17,28.56,28.62,27.69,27.94,21165200,6.99  
1998-04-16,29.25,29.62,28.19,28.62,65642000,7.16  
1998-04-15,27.19,27.50,26.62,27.44,19928800,6.86  
1998-04-14,26.37,27.25,26.37,26.94,11725200,6.74  
1998-04-13,25.62,26.69,25.00,26.44,10305600,6.61  
1998-04-09,25.06,25.87,25.00,25.62,6083600,6.41  
1998-04-08,25.25,25.37,24.69,25.00,8044400,6.25  
1998-04-07,25.81,26.00,24.87,25.50,10461200,6.38  
1998-04-06,27.00,27.00,26.19,26.25,12422000,6.56  
1998-04-03,27.12,27.25,26.81,27.06,7259200,6.76  
1998-04-02,27.31,27.44,26.94,27.31,6950800,6.83  
1998-04-01,27.44,27.81,27.06,27.50,6693600,6.88  
1998-03-31,27.44,27.81,27.25,27.50,9538800,6.88  
1998-03-30,26.75,27.50,26.75,27.44,8972400,6.86  
1998-03-27,26.62,27.31,26.37,26.94,9133200,6.74  
1998-03-26,26.75,27.00,26.44,26.56,7253600,6.64  
1998-03-25,27.62,27.75,26.37,27.16,13854400,6.79  
1998-03-24,26.37,28.00,26.25,28.00,24152000,7.00  
1998-03-23,25.94,26.25,24.62,26.12,14818800,6.53  
1998-03-20,26.69,26.87,26.00,26.37,7704400,6.59  
1998-03-19,26.87,26.94,26.56,26.75,5736800,6.69  
1998-03-18,26.00,26.94,26.00,26.94,9900000,6.74  
1998-03-17,26.50,26.69,25.87,26.34,14658800,6.59  
1998-03-16,27.12,27.25,26.19,26.69,14375600,6.67  
1998-03-13,27.25,27.25,26.25,27.12,20231200,6.78  
1998-03-12,26.12,27.00,25.56,27.00,26598000,6.75  
1998-03-11,25.12,26.19,24.56,26.12,43374400,6.53  
1998-03-10,23.00,24.50,22.94,24.06,25472400,6.01  
1998-03-09,23.75,24.31,22.50,22.75,20540800,5.69  
1998-03-06,23.87,24.50,23.37,24.44,23803600,6.11  
1998-03-05,23.25,24.25,23.12,24.06,24129200,6.01  
1998-03-04,22.87,24.75,22.87,24.44,29212400,6.11  
1998-03-03,21.87,23.19,21.62,23.12,11937600,5.78  
1998-03-02,23.56,23.56,22.25,22.75,14313600,5.69  
1998-02-27,23.31,23.87,22.56,23.62,18578000,5.91  
1998-02-26,22.31,23.56,21.87,23.50,21263200,5.88  
1998-02-25,21.31,22.75,20.94,22.31,25459200,5.58  
1998-02-24,21.31,21.37,20.75,21.31,16322000,5.33  
1998-02-23,20.12,21.62,20.00,21.25,17060800,5.31  
1998-02-20,20.50,20.56,19.81,20.00,11634400,5.00  
1998-02-19,20.87,20.94,20.00,20.44,14292400,5.11

1998-02-18,19.56,20.75,19.56,20.56,17677600,5.14  
1998-02-17,19.50,19.75,19.50,19.62,6530800,4.91  
1998-02-13,19.19,19.87,19.00,19.50,7444400,4.88  
1998-02-12,19.12,19.44,19.06,19.37,7297600,4.84  
1998-02-11,19.50,19.50,18.87,19.00,7582000,4.75  
1998-02-10,19.12,19.56,19.06,19.44,15090000,4.86  
1998-02-09,18.37,19.50,18.37,19.19,17682000,4.80  
1998-02-06,18.37,18.69,18.25,18.50,7241200,4.62  
1998-02-05,18.25,18.50,18.00,18.31,8526400,4.58  
1998-02-04,18.06,18.50,18.00,18.25,6100000,4.56  
1998-02-03,17.69,18.62,17.69,18.31,14390000,4.58  
1998-02-02,18.50,18.50,17.37,17.69,22752400,4.42  
1998-01-30,18.31,18.87,18.25,18.31,5802400,4.58  
1998-01-29,18.94,19.12,18.50,18.50,7571200,4.62  
1998-01-28,19.19,19.37,18.62,19.19,5418000,4.80  
1998-01-27,19.19,19.69,19.00,19.12,4013200,4.78  
1998-01-26,19.44,19.56,18.81,19.44,5246800,4.86  
1998-01-23,19.37,19.69,19.25,19.50,8331200,4.88  
1998-01-22,18.69,19.75,18.62,19.25,11785200,4.81  
1998-01-21,18.75,19.06,18.56,18.91,6812000,4.73  
1998-01-20,19.06,19.31,18.62,19.06,8642400,4.76  
1998-01-16,19.44,19.44,18.69,18.81,8820000,4.70  
1998-01-15,19.19,19.75,18.62,19.19,19982000,4.80  
1998-01-14,19.87,19.94,19.25,19.75,21048000,4.94  
1998-01-13,18.62,19.62,18.50,19.50,22758800,4.88  
1998-01-12,17.44,18.62,17.12,18.25,18444400,4.56  
1998-01-09,18.12,19.37,17.50,18.19,31675200,4.55  
1998-01-08,17.44,18.62,16.94,18.19,27645600,4.55  
1998-01-07,18.81,19.00,17.31,17.50,37201200,4.38  
1998-01-06,15.94,20.00,14.75,18.94,64737600,4.74  
1998-01-05,16.50,16.56,15.19,15.88,23282000,3.97  
1998-01-02,13.63,16.25,13.50,16.25,25650800,4.06  
1997-12-31,13.13,13.63,12.94,13.13,14531200,3.28  
1997-12-30,13.00,13.44,12.75,13.19,12250800,3.30  
1997-12-29,13.31,13.44,12.88,13.13,9944400,3.28  
1997-12-26,13.06,13.38,13.00,13.31,3860000,3.33  
1997-12-24,13.00,13.25,13.00,13.13,3502000,3.28  
1997-12-23,13.13,13.31,12.94,12.94,16402000,3.23  
1997-12-22,13.88,14.00,13.19,13.31,5704400,3.33  
1997-12-19,13.56,13.88,13.25,13.69,6812000,3.42  
1997-12-18,14.00,14.00,13.75,13.81,7225200,3.45  
1997-12-17,14.31,14.56,13.94,13.94,9494400,3.48  
1997-12-16,14.00,14.38,14.00,14.31,6646400,3.58  
1997-12-15,14.13,14.25,13.75,13.94,5927600,3.48  
1997-12-12,14.75,14.88,14.00,14.13,5742400,3.53  
1997-12-11,14.44,14.56,13.88,14.56,9185600,3.64  
1997-12-10,15.06,15.06,14.50,14.75,6960000,3.69  
1997-12-09,15.50,15.69,15.00,15.25,8680800,3.81



1997-12-08,15.56,15.75,15.38,15.56,4776800,3.89  
1997-12-05,15.56,16.00,15.56,15.81,7926400,3.95  
1997-12-04,16.00,16.00,15.63,15.63,7135600,3.91  
1997-12-03,16.06,16.12,15.69,15.75,12258800,3.94  
1997-12-02,17.37,17.50,15.88,15.88,14178800,3.97  
1997-12-01,17.69,17.94,17.25,17.75,3135600,4.44  
1997-11-28,17.62,17.87,17.44,17.75,1495600,4.44  
1997-11-26,17.37,17.69,17.25,17.50,2178800,4.38  
1997-11-25,17.69,17.87,16.87,17.37,7346400,4.34  
1997-11-24,17.56,18.00,17.50,17.62,5630800,4.41  
1997-11-21,18.62,18.69,18.00,18.19,3498800,4.55  
1997-11-20,18.19,18.62,18.12,18.50,4587600,4.62  
1997-11-19,17.87,18.31,17.87,18.25,2843600,4.56  
1997-11-18,18.50,18.50,18.06,18.06,5258000,4.51  
1997-11-17,18.87,18.94,18.33,18.50,7323600,4.62  
1997-11-14,18.25,18.50,18.00,18.44,4835600,4.61  
1997-11-13,18.00,18.06,17.50,18.00,9218000,4.50  
1997-11-12,18.06,18.50,17.56,17.62,7448000,4.41  
1997-11-11,19.00,19.00,18.12,18.37,11893600,4.59  
1997-11-10,21.00,21.50,18.50,18.69,49946800,4.67  
1997-11-07,18.87,20.00,18.75,19.75,28423200,4.94  
1997-11-06,18.87,19.50,18.87,19.00,22060800,4.75  
1997-11-05,18.25,18.62,18.06,18.37,13840000,4.59  
1997-11-04,17.75,18.12,17.50,17.94,6033200,4.49  
1997-11-03,17.56,17.75,17.06,17.37,4512000,4.34  
1997-10-31,17.37,17.37,16.62,17.03,9549200,4.26  
1997-10-30,17.06,17.56,16.50,16.50,6764400,4.12  
1997-10-29,18.44,18.50,17.25,17.50,6355200,4.38  
1997-10-28,16.00,18.50,15.88,18.12,12273200,4.53  
1997-10-27,16.75,18.12,16.75,16.75,11764400,4.19  
1997-10-24,18.12,18.37,16.50,16.56,13880000,4.14  
1997-10-23,18.00,18.19,17.75,17.75,6688000,4.44  
1997-10-22,19.06,19.25,18.50,18.56,5421200,4.64  
1997-10-21,18.87,19.31,18.69,19.06,16982000,4.76  
1997-10-20,20.12,20.19,18.62,18.69,14724400,4.67  
1997-10-17,21.12,21.12,19.87,20.12,15682000,5.03  
1997-10-16,21.12,22.06,20.87,21.50,26422000,5.38  
1997-10-15,22.12,24.75,22.12,23.81,28982000,5.95  
1997-10-14,22.69,22.75,22.19,22.69,5923200,5.67  
1997-10-13,22.75,22.87,22.19,22.69,5679200,5.67  
1997-10-10,21.50,22.75,21.50,22.69,9666800,5.67  
1997-10-09,21.25,22.50,21.19,21.75,6696400,5.44  
1997-10-08,21.75,21.81,21.31,21.50,3891200,5.38  
1997-10-07,21.87,22.00,21.81,21.81,3916400,5.45  
1997-10-06,22.19,22.25,21.69,21.94,3338800,5.49  
1997-10-03,22.00,22.25,21.69,22.12,5813200,5.53  
1997-10-02,21.44,22.00,21.37,21.94,4856400,5.49  
1997-10-01,21.69,21.75,21.37,21.53,4670800,5.38

1997-09-30,22.00,22.31,21.69,21.69,5032000,5.42  
1997-09-29,21.69,22.25,21.56,22.06,5980000,5.51  
1997-09-26,21.50,21.94,21.12,21.31,7440000,5.33  
1997-09-25,21.31,21.75,21.00,21.12,7988000,5.28  
1997-09-24,21.69,21.75,21.37,21.50,7957600,5.38  
1997-09-23,22.25,22.25,21.69,21.75,7163200,5.44  
1997-09-22,22.12,23.06,22.00,22.81,7176400,5.70  
1997-09-19,22.19,22.19,21.75,21.94,3407600,5.49  
1997-09-18,21.50,22.50,21.50,22.31,6042400,5.58  
1997-09-17,22.00,22.00,21.69,21.81,3109200,5.45  
1997-09-16,22.06,22.14,21.75,21.94,4812400,5.49  
1997-09-15,21.87,22.12,21.50,21.50,3473200,5.38  
1997-09-12,22.19,22.25,21.44,22.06,4071200,5.51  
1997-09-11,22.87,23.00,22.06,22.37,7504400,5.59  
1997-09-10,21.75,23.12,21.69,22.94,9803600,5.74  
1997-09-09,21.31,21.87,21.25,21.81,5702000,5.45  
1997-09-08,22.25,22.25,21.44,21.50,6264400,5.38  
1997-09-05,22.62,22.87,22.00,22.19,4883600,5.55  
1997-09-04,22.56,22.87,22.25,22.50,4385600,5.62  
1997-09-03,22.37,23.25,22.31,22.50,10163200,5.62  
1997-09-02,22.00,22.56,21.94,22.37,6646800,5.59  
1997-08-29,21.81,22.00,21.50,21.75,3937600,5.44  
1997-08-28,22.12,22.50,22.00,22.00,3426400,5.50  
1997-08-27,22.37,22.75,21.87,22.69,6813200,5.67  
1997-08-26,22.62,23.00,22.12,22.25,8100800,5.56  
1997-08-25,23.62,23.69,22.94,23.06,4968800,5.76  
1997-08-22,23.44,24.00,23.37,23.62,8135200,5.91  
1997-08-21,24.50,24.69,23.87,24.00,9271200,6.00  
1997-08-20,24.44,25.12,24.19,24.62,11595200,6.16  
1997-08-19,23.69,24.50,23.31,24.44,10331200,6.11  
1997-08-18,23.31,23.75,22.75,23.62,7791200,5.91  
1997-08-15,23.12,23.44,22.81,23.25,9320000,5.81  
1997-08-14,23.62,24.25,22.69,23.00,15536400,5.75  
1997-08-13,22.25,23.87,20.44,23.62,42923600,5.91  
1997-08-12,24.06,24.25,21.87,22.06,37444400,5.51  
1997-08-11,26.31,26.44,23.50,24.56,55411200,6.14  
1997-08-08,27.81,28.37,26.12,26.81,64809200,6.70  
1997-08-07,28.75,29.56,28.37,29.19,134124400,7.30  
1997-08-06,25.25,27.75,25.00,26.31,149671200,6.58  
1997-08-05,19.94,20.00,19.48,19.75,8840800,4.94  
1997-08-04,19.19,19.81,19.19,19.75,21851200,4.94  
1997-08-01,17.62,19.19,17.56,19.19,17217600,4.80  
1997-07-31,17.37,17.75,17.25,17.50,9434400,4.38  
1997-07-30,16.94,17.69,16.75,17.37,13372400,4.34  
1997-07-29,16.44,16.62,16.37,16.50,2558000,4.12  
1997-07-28,16.44,16.50,16.25,16.44,3962000,4.11  
1997-07-25,15.88,16.56,15.75,16.25,7798000,4.06  
1997-07-24,16.12,16.12,15.63,15.81,4772000,3.95

1997-07-23,16.75,16.87,16.00,16.12,5049200,4.03  
1997-07-22,16.37,16.69,16.31,16.56,8274400,4.14  
1997-07-21,17.56,17.69,16.00,16.16,12695600,4.04  
1997-07-18,17.87,17.94,17.06,17.34,11353600,4.34  
1997-07-17,17.00,18.12,16.44,17.50,26659200,4.38  
1997-07-16,15.81,16.50,15.63,16.44,15947600,4.11  
1997-07-15,15.75,16.00,15.63,15.94,14953200,3.98  
1997-07-14,15.25,15.63,14.88,15.63,14700800,3.91  
1997-07-11,13.38,15.50,13.31,15.19,26252400,3.80  
1997-07-10,12.88,13.38,12.75,13.25,17606400,3.31  
1997-07-09,13.81,13.88,13.63,13.69,5090000,3.42  
1997-07-08,13.88,14.00,13.69,13.75,3427600,3.44  
1997-07-07,13.94,14.25,13.75,13.81,6860000,3.45  
1997-07-03,13.13,13.88,13.00,13.69,6688000,3.42  
1997-07-02,13.25,13.38,13.00,13.06,8931200,3.27  
1997-07-01,13.94,14.00,13.13,13.19,16104400,3.30  
1997-06-30,14.75,14.75,14.00,14.25,6132400,3.56  
1997-06-27,14.69,14.81,14.63,14.69,5642000,3.67  
1997-06-26,15.13,15.13,14.63,14.69,13643600,3.67  
1997-06-25,15.31,15.38,15.00,15.13,7102000,3.78  
1997-06-24,15.44,15.56,15.25,15.31,3974800,3.83  
1997-06-23,15.50,15.63,15.38,15.38,3574800,3.85  
1997-06-20,15.69,15.75,15.50,15.56,3943600,3.89  
1997-06-19,16.00,16.00,15.69,15.75,4323600,3.94  
1997-06-18,16.12,16.25,15.75,15.94,3936400,3.98  
1997-06-17,15.56,16.50,15.50,16.34,5080800,4.09  
1997-06-16,15.88,15.88,15.38,15.50,4800800,3.88  
1997-06-13,16.06,16.12,15.75,15.81,4737600,3.95  
1997-06-12,16.37,16.37,16.00,16.06,2816400,4.01  
1997-06-11,16.31,16.44,16.25,16.31,3766800,4.08  
1997-06-10,16.75,16.75,16.06,16.25,4969200,4.06  
1997-06-09,16.69,16.94,16.62,16.62,2689200,4.16  
1997-06-06,16.62,16.75,16.50,16.75,1893200,4.19  
1997-06-05,16.62,17.12,16.56,16.69,2323200,4.17  
1997-06-04,16.62,16.75,16.50,16.62,2889200,4.16  
1997-06-03,16.75,16.94,16.62,16.69,2335600,4.17  
1997-06-02,17.00,17.00,16.75,16.94,1488000,4.24  
1997-05-30,16.50,17.00,16.37,16.62,6340800,4.16  
1997-05-29,17.12,17.12,16.62,16.62,3976800,4.16  
1997-05-28,17.37,17.50,17.00,17.00,3130000,4.25  
1997-05-27,16.75,17.37,16.75,17.25,2938000,4.31  
1997-05-23,16.62,17.00,16.62,16.87,2413200,4.22  
1997-05-22,16.75,16.87,16.50,16.62,2753600,4.16  
1997-05-21,17.12,17.12,16.50,16.87,4369200,4.22  
1997-05-20,17.00,17.44,16.75,17.25,3046400,4.31  
1997-05-19,17.50,17.62,17.00,17.00,1881200,4.25  
1997-05-16,17.50,17.62,17.25,17.25,3338800,4.31  
1997-05-15,17.75,18.00,17.50,17.75,3544800,4.44

1997-05-14,17.87,18.00,17.50,17.69,4846800,4.42  
1997-05-13,17.50,17.87,17.00,17.56,7056800,4.39  
1997-05-12,17.25,17.62,17.00,17.56,5898800,4.39  
1997-05-09,17.00,17.50,17.00,17.06,6732000,4.26  
1997-05-08,16.62,17.12,16.50,17.00,2963200,4.25  
1997-05-07,16.87,17.00,16.37,16.50,4101200,4.12  
1997-05-06,17.00,17.12,16.75,16.87,2974800,4.22  
1997-05-05,17.00,17.12,16.75,17.00,3538800,4.25  
1997-05-02,17.00,17.12,16.75,17.00,3643600,4.25  
1997-05-01,16.87,17.12,16.75,17.00,2596800,4.25  
1997-04-30,17.00,17.25,16.75,17.00,9202000,4.25  
1997-04-29,18.00,18.00,17.50,17.69,1853200,4.42  
1997-04-28,17.75,17.87,17.50,17.62,1687600,4.41  
1997-04-25,17.62,17.87,17.37,17.50,3121200,4.38  
1997-04-24,18.50,18.50,17.75,17.87,2696800,4.47  
1997-04-23,18.37,18.50,18.12,18.12,1960800,4.53  
1997-04-22,18.12,18.50,17.87,18.50,3392000,4.62  
1997-04-21,18.62,18.62,18.00,18.00,3197600,4.50  
1997-04-18,19.12,19.12,18.37,18.37,5058000,4.59  
1997-04-17,18.25,19.12,18.12,19.00,7859200,4.75  
1997-04-16,18.62,19.00,18.37,18.56,3101200,4.64  
1997-04-15,19.12,19.25,18.12,18.44,4869200,4.61  
1997-04-14,18.37,18.87,18.00,18.75,4020000,4.69  
1997-04-11,18.87,18.87,18.12,18.25,2842400,4.56  
1997-04-10,19.00,19.12,18.50,18.87,4188000,4.72  
1997-04-09,19.25,19.25,18.87,19.00,8766400,4.75  
1997-04-08,19.62,19.62,18.62,19.12,6923600,4.78  
1997-04-07,19.75,19.87,19.25,19.50,9136800,4.88  
1997-04-04,19.12,19.62,19.00,19.25,16980800,4.81  
1997-04-03,18.50,19.12,18.25,18.87,19603200,4.72  
1997-04-02,17.87,18.06,17.62,18.00,7957600,4.50  
1997-04-01,17.62,17.81,17.37,17.50,7881200,4.38  
1997-03-31,18.62,19.37,17.25,18.25,34658000,4.56  
1997-03-27,17.50,19.25,17.25,18.62,40695200,4.66  
1997-03-26,16.37,16.87,16.25,16.75,3824400,4.19  
1997-03-25,16.62,16.62,16.08,16.50,4031200,4.12  
1997-03-24,16.50,16.62,16.25,16.50,2556800,4.12  
1997-03-21,17.50,17.50,16.37,16.62,4892400,4.16  
1997-03-20,16.00,17.50,15.88,17.25,11324400,4.31  
1997-03-19,16.37,16.37,15.88,16.12,7457600,4.03  
1997-03-18,16.37,16.50,16.12,16.25,4548800,4.06  
1997-03-17,16.25,16.50,16.00,16.50,6886400,4.12  
1997-03-14,16.37,16.75,16.25,16.56,8245600,4.14  
1997-03-13,16.37,16.37,16.12,16.37,3772000,4.09  
1997-03-12,16.25,16.75,16.12,16.25,2544400,4.06  
1997-03-11,16.62,16.62,16.00,16.37,3539200,4.09  
1997-03-10,16.62,16.75,16.44,16.62,3554800,4.16  
1997-03-07,16.75,16.75,16.37,16.50,2523200,4.12

1997-03-06,17.00,17.00,16.50,16.62,4172000,4.16  
1997-03-05,16.62,17.00,16.50,17.00,3453600,4.25  
1997-03-04,16.25,16.50,16.00,16.50,3688800,4.12  
1997-03-03,16.50,16.50,16.00,16.12,4670000,4.03  
1997-02-28,16.87,16.87,16.25,16.25,4371200,4.06  
1997-02-27,17.00,17.12,16.75,17.00,3700000,4.25  
1997-02-26,17.00,17.12,16.75,17.12,3687600,4.28  
1997-02-25,17.00,17.37,16.87,16.87,4938000,4.22  
1997-02-24,16.25,16.87,16.25,16.62,4222000,4.16  
1997-02-21,16.87,17.00,16.00,16.37,7549200,4.09  
1997-02-20,17.62,17.62,17.00,17.00,4474800,4.25  
1997-02-19,17.87,17.87,17.12,17.62,8627600,4.41  
1997-02-18,16.62,17.87,16.25,17.87,13171200,4.47  
1997-02-14,16.25,16.37,16.00,16.31,8492000,4.08  
1997-02-13,15.75,16.12,15.50,16.12,7013200,4.03  
1997-02-12,15.75,15.88,15.50,15.75,6303600,3.94  
1997-02-11,15.88,16.00,15.50,15.69,5004400,3.92  
1997-02-10,16.12,16.12,15.63,15.63,6633600,3.91  
1997-02-07,16.50,16.50,15.75,15.81,8403600,3.95  
1997-02-06,15.25,16.12,15.25,16.00,14283600,4.00  
1997-02-05,15.25,15.63,15.25,15.25,14093600,3.81  
1997-02-04,16.25,16.37,15.13,15.38,25458000,3.85  
1997-02-03,16.87,17.00,16.25,16.31,13162000,4.08  
1997-01-31,16.62,16.62,16.50,16.62,7135200,4.16  
1997-01-30,16.75,16.75,16.50,16.75,5018800,4.19  
1997-01-29,16.62,16.75,16.50,16.62,5428000,4.16  
1997-01-28,17.00,17.00,16.50,16.62,7520000,4.16  
1997-01-27,17.12,17.25,16.62,16.62,7646800,4.16  
1997-01-24,17.25,17.25,16.87,16.87,6726800,4.22  
1997-01-23,17.25,17.37,17.12,17.25,6175200,4.31  
1997-01-22,17.37,17.50,17.00,17.19,7356800,4.30  
1997-01-21,17.00,17.25,16.87,17.25,10179200,4.31  
1997-01-20,16.87,17.12,16.75,16.94,10423600,4.24  
1997-01-17,16.75,17.12,16.62,16.75,11619200,4.19  
1997-01-16,17.12,17.12,16.62,16.75,23983600,4.19  
1997-01-15,18.00,18.00,17.12,17.25,15483200,4.31  
1997-01-14,18.37,18.37,17.75,17.87,9143200,4.47  
1997-01-13,18.50,18.50,18.12,18.12,10942000,4.53  
1997-01-10,17.62,18.25,17.62,18.25,12651200,4.56  
1997-01-09,17.75,17.87,17.50,17.75,15970000,4.44  
1997-01-08,18.25,18.37,17.37,17.62,39296400,4.41  
1997-01-07,18.12,18.25,17.50,17.50,34896400,4.38  
1997-01-06,17.62,18.34,17.25,17.87,67246400,4.47  
1997-01-03,21.12,22.25,21.00,21.75,4295600,5.44  
1997-01-02,21.12,21.25,20.75,21.00,5128800,5.25  
1996-12-31,21.37,21.50,20.75,20.87,13719200,5.22  
1996-12-30,23.12,23.25,21.75,21.75,9366800,5.44  
1996-12-27,22.87,23.75,22.87,23.12,4900000,5.78

1996-12-26,23.25,23.25,22.87,23.00,3049200,5.75  
1996-12-24,23.25,23.37,22.87,23.12,2067600,5.78  
1996-12-23,24.00,24.25,23.25,23.25,11883600,5.81  
1996-12-20,22.50,23.62,21.37,23.50,19535600,5.88  
1996-12-19,23.00,23.25,22.25,22.25,4893600,5.56  
1996-12-18,22.75,23.12,22.62,23.12,7326400,5.78  
1996-12-17,22.37,22.50,22.25,22.50,5625200,5.62  
1996-12-16,23.50,23.50,22.50,22.62,5335600,5.66  
1996-12-13,23.75,23.87,23.25,23.25,3194400,5.81  
1996-12-12,24.12,24.25,23.87,23.87,3122400,5.97  
1996-12-11,23.75,24.25,23.75,24.00,5853600,6.00  
1996-12-10,24.87,25.00,24.25,24.50,6593600,6.12  
1996-12-09,25.25,25.37,24.81,25.00,5680800,6.25  
1996-12-06,24.37,25.37,24.00,25.12,8210800,6.28  
1996-12-05,25.00,25.25,25.00,25.00,5096800,6.25  
1996-12-04,25.12,25.37,24.87,25.00,6823600,6.25  
1996-12-03,25.25,25.50,25.00,25.12,9840800,6.28  
1996-12-02,24.12,25.12,23.87,25.12,6254400,6.28  
1996-11-29,24.50,24.62,24.00,24.12,1527600,6.03  
1996-11-27,24.12,24.62,24.12,24.50,3191200,6.12  
1996-11-26,24.87,25.00,24.00,24.25,4054800,6.06  
1996-11-25,25.37,25.50,25.00,25.00,2830800,6.25  
1996-11-22,24.50,25.25,24.50,25.25,3732400,6.31  
1996-11-21,24.87,25.00,24.37,24.50,2522400,6.12  
1996-11-20,24.87,25.37,24.87,25.00,3683200,6.25  
1996-11-19,24.87,25.12,24.62,24.87,4446400,6.22  
1996-11-18,25.00,25.12,24.50,24.75,5468800,6.19  
1996-11-15,25.87,26.00,25.00,25.00,4684400,6.25  
1996-11-14,25.50,25.75,25.37,25.62,1740800,6.41  
1996-11-13,25.37,25.87,25.00,25.56,3000800,6.39  
1996-11-12,26.12,26.25,25.12,25.25,5120000,6.31  
1996-11-11,26.37,26.37,25.87,26.00,3318800,6.50  
1996-11-08,25.87,26.25,25.75,26.25,6750800,6.56  
1996-11-07,25.37,26.00,25.25,25.87,5548800,6.47  
1996-11-06,25.62,25.75,24.87,25.50,6462000,6.38  
1996-11-05,24.50,25.87,24.50,25.50,13517600,6.38  
1996-11-04,24.37,24.50,23.75,24.37,3270800,6.09  
1996-11-01,23.37,24.25,23.12,24.25,7563200,6.06  
1996-10-31,23.25,23.37,22.25,23.00,6945600,5.75  
1996-10-30,23.50,24.00,22.87,22.87,9192000,5.72  
1996-10-29,24.62,24.75,23.12,23.25,7135200,5.81  
1996-10-28,25.12,25.12,24.50,24.50,4288800,6.12  
1996-10-25,24.87,25.00,24.50,24.50,2775600,6.12  
1996-10-24,25.00,25.00,24.50,24.75,3020800,6.19  
1996-10-23,24.75,25.25,24.37,24.75,5736800,6.19  
1996-10-22,25.62,25.62,24.25,24.87,7651200,6.22  
1996-10-21,26.50,26.62,25.50,25.62,6712000,6.41  
1996-10-18,26.50,26.62,26.00,26.56,13681200,6.64

1996-10-17,27.50,27.75,26.37,26.37,36679200,6.59  
1996-10-16,25.25,26.12,24.62,25.75,11975200,6.44  
1996-10-15,25.75,25.87,25.00,25.25,12970000,6.31  
1996-10-14,24.50,25.37,24.25,25.25,9649200,6.31  
1996-10-11,24.37,24.62,24.00,24.25,4327600,6.06  
1996-10-10,23.87,24.50,23.75,24.19,9883200,6.05  
1996-10-09,23.37,23.62,22.87,23.00,3044800,5.75  
1996-10-08,23.50,24.25,23.25,23.25,6802000,5.81  
1996-10-07,23.00,23.37,22.87,23.12,3428800,5.78  
1996-10-04,22.87,23.12,22.12,22.81,4770000,5.70  
1996-10-03,23.62,23.75,22.37,22.37,8140000,5.59  
1996-10-02,23.62,24.62,23.12,23.62,9890000,5.91  
1996-10-01,22.00,24.75,22.00,24.62,19269200,6.16  
1996-09-30,22.12,22.37,22.12,22.19,3058000,5.55  
1996-09-27,22.25,22.37,22.12,22.31,2932000,5.58  
1996-09-26,22.37,22.50,22.25,22.37,3693600,5.59  
1996-09-25,22.50,22.62,22.00,22.37,3902400,5.59  
1996-09-24,22.37,22.87,22.37,22.50,5143600,5.62  
1996-09-23,22.87,22.87,22.37,22.37,1653600,5.59  
1996-09-20,23.37,23.50,22.75,22.87,5330800,5.72  
1996-09-19,23.62,23.62,23.37,23.37,4282000,5.84  
1996-09-18,23.00,24.12,22.87,23.50,12631200,5.88  
1996-09-17,22.87,23.12,22.50,23.00,7487600,5.75  
1996-09-16,21.50,23.00,21.37,22.37,8747600,5.59  
1996-09-13,20.37,21.25,20.37,21.00,5967600,5.25  
1996-09-12,21.00,21.12,20.25,20.37,9340000,5.09  
1996-09-11,21.50,21.75,21.00,21.12,5266800,5.28  
1996-09-10,22.12,22.12,21.50,21.50,5562000,5.38  
1996-09-09,22.62,22.75,21.87,22.00,5302400,5.50  
1996-09-06,23.12,23.25,22.62,23.00,8602000,5.75  
1996-09-05,23.50,23.75,22.87,22.87,9999200,5.72  
1996-09-04,23.87,24.62,23.87,24.12,3636400,6.03  
1996-09-03,24.12,24.37,23.87,24.12,2461200,6.03  
1996-08-30,24.75,24.75,24.25,24.25,3784800,6.06  
1996-08-29,24.87,24.87,24.37,24.50,3829200,6.12  
1996-08-28,24.87,25.00,24.50,24.87,5844400,6.22  
1996-08-27,24.12,25.00,24.00,24.86,10339200,6.22  
1996-08-26,23.87,24.12,23.50,24.12,3204400,6.03  
1996-08-23,23.00,24.00,23.00,23.87,7281200,5.97  
1996-08-22,23.00,23.25,22.87,23.25,3138000,5.81  
1996-08-21,23.50,23.62,22.87,23.00,4052400,5.75  
1996-08-20,23.87,23.87,23.37,23.50,7564400,5.88  
1996-08-19,22.37,23.62,22.37,23.62,8084400,5.91  
1996-08-16,22.62,22.62,22.12,22.50,5075600,5.62  
1996-08-15,22.62,22.75,22.25,22.25,3845600,5.56  
1996-08-14,22.62,23.00,22.62,22.75,2570000,5.69  
1996-08-13,22.87,23.12,22.37,22.50,3706400,5.62  
1996-08-12,23.37,23.62,22.37,23.00,5408000,5.75

1996-08-09,22.25,23.37,22.12,23.12,8243600,5.78  
1996-08-08,22.37,22.37,21.87,22.12,3640000,5.53  
1996-08-07,21.75,22.62,21.62,22.37,8892400,5.59  
1996-08-06,21.00,21.50,20.75,21.50,3354800,5.38  
1996-08-05,21.62,21.87,20.87,21.00,3612000,5.25  
1996-08-02,21.62,22.00,21.25,21.62,4574800,5.41  
1996-08-01,22.00,22.00,21.12,21.25,3942400,5.31  
1996-07-31,21.25,22.00,21.25,22.00,3332400,5.50  
1996-07-30,22.62,22.75,21.25,21.37,6766800,5.34  
1996-07-29,22.00,22.50,21.75,22.25,7005600,5.56  
1996-07-26,21.50,22.00,21.12,22.00,4426800,5.50  
1996-07-25,21.12,21.37,20.75,21.00,4090800,5.25  
1996-07-24,20.00,21.00,19.87,20.81,9448800,5.20  
1996-07-23,20.50,20.62,20.25,20.50,4651200,5.12  
1996-07-22,20.87,20.87,20.00,20.25,5456400,5.06  
1996-07-19,20.87,21.00,20.75,20.75,9510000,5.19  
1996-07-18,21.50,21.75,20.36,20.87,32058800,5.22  
1996-07-17,17.37,17.50,16.62,16.87,8355600,4.22  
1996-07-16,17.37,17.37,16.00,16.87,10334400,4.22  
1996-07-15,18.12,18.12,17.12,17.19,4779200,4.30  
1996-07-12,18.37,18.37,17.25,18.06,9610800,4.51  
1996-07-11,18.75,18.87,17.37,17.87,10420000,4.47  
1996-07-10,19.12,19.50,18.75,18.75,6055200,4.69  
1996-07-09,19.50,19.62,19.00,19.00,6723600,4.75  
1996-07-08,19.62,19.87,19.00,19.12,6762000,4.78  
1996-07-05,19.37,19.75,19.25,19.50,3808800,4.88  
1996-07-03,20.37,20.37,19.37,19.37,10323200,4.84  
1996-07-02,21.37,21.50,21.00,21.00,3189200,5.25  
1996-07-01,21.12,21.50,21.00,21.50,4732400,5.38  
1996-06-28,20.87,21.00,20.62,21.00,4138000,5.25  
1996-06-27,20.00,21.00,19.75,20.62,8202400,5.16  
1996-06-26,20.62,20.75,19.62,19.87,14440800,4.97  
1996-06-25,22.12,22.25,20.37,20.62,8831200,5.16  
1996-06-24,22.62,22.62,22.12,22.25,4398000,5.56  
1996-06-21,22.87,22.87,22.37,22.62,5792000,5.66  
1996-06-20,23.37,23.37,22.50,22.75,5260800,5.69  
1996-06-19,23.12,23.37,22.62,23.12,4803600,5.78  
1996-06-18,23.62,23.75,22.62,22.75,7979200,5.69  
1996-06-17,24.12,24.12,23.62,23.62,4052000,5.91  
1996-06-14,24.75,24.75,23.87,23.94,5186800,5.99  
1996-06-13,24.37,24.92,24.00,24.62,6856800,6.16  
1996-06-12,24.50,24.50,24.00,24.25,5440000,6.06  
1996-06-11,24.25,24.25,24.00,24.00,5481200,6.00  
1996-06-10,24.37,24.50,24.00,24.12,3820800,6.03  
1996-06-07,24.00,24.37,23.50,24.37,9565200,6.09  
1996-06-06,25.00,25.25,24.12,24.25,12938800,6.06  
1996-06-05,25.37,25.50,24.25,25.12,18228000,6.28  
1996-06-04,24.00,24.37,23.87,24.19,27235600,6.05



1996-06-03,25.87,26.00,24.75,24.75,4481200,6.19  
1996-05-31,25.62,26.62,25.50,26.12,5813600,6.53  
1996-05-30,24.87,25.75,24.75,25.50,3703600,6.38  
1996-05-29,26.25,26.25,24.75,24.87,7840000,6.22  
1996-05-28,26.75,27.25,26.37,26.37,3658800,6.59  
1996-05-24,26.25,26.87,26.12,26.75,4046800,6.69  
1996-05-23,26.12,26.62,25.75,26.25,4447600,6.56  
1996-05-22,27.37,27.37,25.75,26.06,7215600,6.51  
1996-05-21,28.00,28.12,27.12,27.12,4088000,6.78  
1996-05-20,27.87,28.12,27.62,27.94,3028800,6.99  
1996-05-17,28.37,28.37,27.50,27.62,4405600,6.91  
1996-05-16,28.25,28.62,27.87,28.37,4648800,7.09  
1996-05-15,27.87,28.87,27.75,28.50,10442400,7.12  
1996-05-14,27.75,28.00,27.50,27.50,7068000,6.88  
1996-05-13,27.12,27.62,26.62,27.06,6701200,6.76  
1996-05-10,26.25,27.37,26.00,27.25,3966400,6.81  
1996-05-09,26.37,26.50,25.75,26.12,3515600,6.53  
1996-05-08,27.25,27.25,25.62,26.75,6688800,6.69  
1996-05-07,26.37,27.37,26.25,26.87,12641200,6.72  
1996-05-06,24.87,25.87,24.75,25.62,10349200,6.41  
1996-05-03,24.12,24.12,23.50,23.87,3892400,5.97  
1996-05-02,24.50,24.50,23.50,23.75,6728000,5.94  
1996-05-01,24.37,24.75,24.12,24.37,4039200,6.09  
1996-04-30,24.87,24.87,24.12,24.37,4881200,6.09  
1996-04-29,25.00,25.00,24.50,24.75,4324800,6.19  
1996-04-26,25.00,25.12,24.62,24.75,6759200,6.19  
1996-04-25,24.37,24.87,24.12,24.87,6245200,6.22  
1996-04-24,24.62,24.75,24.19,24.25,4596800,6.06  
1996-04-23,25.12,25.25,24.62,24.75,6086400,6.19  
1996-04-22,25.25,25.50,24.87,25.12,3973200,6.28  
1996-04-19,24.62,25.12,24.62,25.06,3655600,6.26  
1996-04-18,25.37,25.39,24.25,24.75,7780800,6.19  
1996-04-17,25.87,26.00,25.12,25.25,3056400,6.31  
1996-04-16,25.87,26.00,25.62,25.87,3634400,6.47  
1996-04-15,25.50,25.75,25.00,25.75,5515600,6.44  
1996-04-12,25.87,25.87,25.37,25.50,2924400,6.38  
1996-04-11,26.12,26.25,25.50,25.75,3526400,6.44  
1996-04-10,26.12,26.50,25.87,26.00,6242400,6.50  
1996-04-09,24.87,26.50,24.37,26.00,8415600,6.50  
1996-04-08,23.87,24.50,23.75,24.37,6046400,6.09  
1996-04-04,24.62,24.62,24.00,24.12,3092000,6.03  
1996-04-03,25.12,25.12,24.33,24.56,2591200,6.14  
1996-04-02,25.62,25.62,24.87,25.00,3635600,6.25  
1996-04-01,25.12,25.87,24.52,25.50,5680000,6.38  
1996-03-29,24.25,24.75,23.75,24.56,5962400,6.14  
1996-03-28,24.75,25.62,24.12,24.19,10572000,6.05  
1996-03-27,23.25,25.25,23.00,25.25,15338800,6.31  
1996-03-26,24.00,24.50,23.62,23.87,5755600,5.97

1996-03-25,25.50,25.75,24.00,24.00,5887600,6.00  
1996-03-22,25.25,25.37,24.87,25.37,3842400,6.34  
1996-03-21,25.50,25.50,25.00,25.12,3932400,6.28  
1996-03-20,25.75,25.75,25.12,25.25,4154800,6.31  
1996-03-19,26.37,26.50,25.62,25.75,4442400,6.44  
1996-03-18,25.94,26.12,25.75,26.12,3907600,6.53  
1996-03-15,26.00,26.00,25.50,25.87,3632400,6.47  
1996-03-14,25.87,25.87,25.50,25.62,3342400,6.41  
1996-03-13,25.87,26.12,25.62,25.75,3560000,6.44  
1996-03-12,26.00,26.37,25.62,25.81,3453200,6.45  
1996-03-11,26.25,26.37,25.75,25.87,4544800,6.47  
1996-03-08,25.75,26.25,25.00,26.00,5322400,6.50  
1996-03-07,26.25,26.37,25.37,25.81,9292400,6.45  
1996-03-06,26.75,26.87,26.12,26.19,3547600,6.55  
1996-03-05,26.50,26.75,26.25,26.62,4246800,6.66  
1996-03-04,27.25,27.37,26.25,26.25,6708800,6.56  
1996-03-01,27.62,27.62,26.62,26.87,8263200,6.72  
1996-02-29,27.50,27.75,27.25,27.50,4049200,6.88  
1996-02-28,28.87,28.87,27.62,27.75,6728800,6.94  
1996-02-27,29.87,29.87,28.50,28.62,5331200,7.16  
1996-02-26,30.00,30.12,29.50,29.50,4238000,7.38  
1996-02-23,29.87,30.25,29.62,29.87,6205200,7.47  
1996-02-22,30.00,30.12,29.62,29.87,6588000,7.47  
1996-02-21,29.37,29.75,29.12,29.62,7924400,7.41  
1996-02-20,28.00,29.50,28.00,29.00,13473200,7.25  
1996-02-16,28.12,28.37,27.50,27.50,5602400,6.88  
1996-02-15,27.62,28.12,27.37,28.00,4360000,7.00  
1996-02-14,28.25,28.25,27.44,27.62,5843600,6.91  
1996-02-13,28.00,28.87,27.87,28.12,8161200,7.03  
1996-02-12,28.12,28.50,28.00,28.37,6948800,7.09  
1996-02-09,27.87,28.50,27.62,27.75,7360800,6.94  
1996-02-08,27.50,28.12,27.50,27.87,9420800,6.97  
1996-02-07,29.75,29.75,27.75,28.25,12885200,7.06  
1996-02-06,29.25,30.00,29.25,29.62,8101200,7.41  
1996-02-05,29.69,29.75,29.00,29.25,11396400,7.31  
1996-02-02,28.87,29.62,28.75,29.25,19865600,7.31  
1996-02-01,27.50,28.37,27.50,28.37,11902400,7.09  
1996-01-31,27.75,28.00,27.37,27.62,11736800,6.91  
1996-01-30,27.00,28.12,26.86,27.31,22246800,6.83  
1996-01-29,29.00,29.75,28.75,29.12,11900000,7.28  
1996-01-26,30.37,31.25,28.62,30.62,26297600,7.66  
1996-01-25,31.75,32.00,30.12,30.25,15911200,7.56  
1996-01-24,32.13,32.25,31.75,32.25,23438800,8.06  
1996-01-23,33.75,34.00,31.00,31.62,35305200,7.91  
1996-01-22,29.75,31.00,29.25,30.50,17852400,7.62  
1996-01-19,31.00,31.75,29.37,29.87,29623600,7.47  
1996-01-18,32.88,33.38,30.37,31.94,24955200,7.99  
1996-01-17,34.38,34.38,33.75,34.00,8445200,8.50

1996-01-16,34.38,34.75,33.63,34.56,12606400,8.64  
1996-01-15,33.75,34.50,33.38,34.13,12971200,8.53  
1996-01-12,34.75,34.75,33.25,33.88,14370000,8.47  
1996-01-11,32.63,35.00,32.38,35.00,27041200,8.75  
1996-01-10,32.50,34.75,32.25,34.25,13057600,8.56  
1996-01-09,34.63,34.63,32.75,32.75,8978800,8.19  
1996-01-08,34.50,35.50,34.00,34.63,4341200,8.66  
1996-01-05,31.62,34.25,31.37,34.25,15929200,8.56  
1996-01-04,32.38,32.38,31.37,31.56,10721200,7.89  
1996-01-03,32.00,32.88,31.87,32.13,15368800,8.03  
1996-01-02,32.25,32.25,31.75,32.13,4983200,8.03  
1995-12-29,32.00,32.38,31.62,31.87,10874400,7.97  
1995-12-28,32.13,32.75,31.87,32.00,8933200,8.00  
1995-12-27,32.13,33.38,31.87,32.38,9609200,8.10  
1995-12-26,32.50,32.50,31.75,32.06,4994800,8.02  
1995-12-22,32.63,32.88,32.13,32.25,8392400,8.06  
1995-12-21,32.75,32.75,31.62,32.50,11893200,8.12  
1995-12-20,33.50,33.63,32.50,32.63,13074400,8.16  
1995-12-19,32.75,33.25,32.25,32.75,15403600,8.19  
1995-12-18,35.13,35.25,31.87,32.25,23807600,8.06  
1995-12-15,35.50,36.63,34.38,35.25,25960000,8.81  
1995-12-14,38.88,39.38,38.00,38.25,11928000,9.56  
1995-12-13,38.25,39.00,36.75,38.38,24472400,9.60  
1995-12-12,38.63,38.63,38.00,38.00,6353200,9.50  
1995-12-11,39.50,39.63,38.38,38.63,4003200,9.66  
1995-12-08,38.75,39.38,37.88,39.38,5053200,9.85  
1995-12-07,38.75,38.75,37.88,38.56,5084800,9.64  
1995-12-06,39.75,39.88,38.38,38.75,7195200,9.69  
1995-12-05,38.50,39.88,38.25,39.50,13000000,9.88  
1995-12-04,40.13,40.13,39.00,39.50,17171200,9.88  
1995-12-01,38.00,38.25,37.13,37.63,7300800,9.41  
1995-11-30,38.88,39.00,38.00,38.13,6247600,9.53  
1995-11-29,40.13,40.13,39.00,39.25,3782000,9.81  
1995-11-28,39.38,40.13,39.25,40.00,6305200,10.00  
1995-11-27,40.63,40.63,39.38,39.38,4148800,9.85  
1995-11-24,38.88,40.38,38.75,40.19,3930800,10.05  
1995-11-22,38.63,39.25,38.50,38.63,3533600,9.66  
1995-11-21,38.75,38.75,37.88,38.63,6845200,9.66  
1995-11-20,40.25,40.25,38.50,38.63,5314400,9.63  
1995-11-17,40.00,40.38,39.75,40.13,4607600,10.00  
1995-11-16,40.88,41.50,39.50,39.94,8102000,9.95  
1995-11-15,42.00,42.00,40.13,41.00,8874400,10.22  
1995-11-14,41.00,42.50,41.00,41.50,14560000,10.34  
1995-11-13,40.25,41.25,40.00,40.88,11343200,10.19  
1995-11-10,39.38,40.25,38.88,39.75,7973200,9.91  
1995-11-09,39.75,40.00,38.88,39.38,9295200,9.81  
1995-11-08,39.75,41.00,38.75,38.88,12823600,9.69  
1995-11-07,37.75,40.50,37.50,39.63,26310800,9.88

1995-11-06,36.50,38.75,36.38,38.13,11143200,9.50  
1995-11-03,36.75,36.88,35.88,36.50,6413200,9.10  
1995-11-02,36.88,36.88,36.25,36.63,5464400,9.13  
1995-11-01,36.63,37.13,35.50,36.63,6913200,9.13  
1995-10-31,35.25,36.63,35.13,36.31,10334400,9.05  
1995-10-30,34.88,35.25,34.63,35.25,6291200,8.79  
1995-10-27,34.88,34.88,34.13,34.75,5523200,8.66  
1995-10-26,34.88,35.00,34.50,34.88,4503600,8.69  
1995-10-25,35.25,35.38,34.75,34.75,4761200,8.66  
1995-10-24,35.50,35.50,34.88,35.13,7638800,8.76  
1995-10-23,35.13,35.13,34.75,35.13,7078000,8.76  
1995-10-20,35.25,35.25,34.63,35.13,13818800,8.76  
1995-10-19,35.88,36.13,34.75,34.75,33761200,8.66  
1995-10-18,37.00,39.56,36.75,37.38,18311200,9.32  
1995-10-17,36.50,36.88,35.88,36.63,6390000,9.13  
1995-10-16,36.25,37.00,35.88,36.13,6515200,9.00  
1995-10-13,35.75,36.88,35.50,36.00,8422000,8.97  
1995-10-12,35.00,35.38,34.75,35.31,5803200,8.80  
1995-10-11,35.25,35.63,34.13,34.88,11893200,8.69  
1995-10-10,34.38,35.00,33.63,34.69,14303600,8.65  
1995-10-09,35.38,35.75,34.38,34.81,13320800,8.68  
1995-10-06,36.75,37.00,35.63,35.69,11058000,8.89  
1995-10-05,36.25,36.63,35.88,36.50,8737600,9.10  
1995-10-04,36.63,37.00,36.00,36.38,9532000,9.07  
1995-10-03,38.13,38.50,37.13,37.63,10368000,9.38  
1995-10-02,37.75,38.50,37.50,37.63,14000000,9.38  
1995-09-29,38.00,38.25,36.88,37.25,10123200,9.28  
1995-09-28,36.50,37.88,36.50,37.75,11843600,9.41  
1995-09-27,37.50,37.50,34.75,36.25,16135600,9.03  
1995-09-26,37.75,37.88,37.13,37.38,8961200,9.32  
1995-09-25,38.25,38.27,37.38,37.52,11267600,9.35  
1995-09-22,36.88,37.25,36.38,37.06,14258000,9.24  
1995-09-21,36.50,37.50,36.38,37.00,12407600,9.22  
1995-09-20,37.25,37.38,36.50,36.63,11500800,9.13  
1995-09-19,36.75,37.13,36.13,36.75,17512400,9.16  
1995-09-18,36.38,36.81,35.88,36.69,22216400,9.14  
1995-09-15,37.38,39.88,35.50,35.88,43286800,8.94  
1995-09-14,41.38,41.63,39.75,40.00,19675600,9.97  
1995-09-13,42.88,43.38,42.00,42.38,11530800,10.56  
1995-09-12,44.50,44.88,42.63,42.94,11658800,10.70  
1995-09-11,44.88,45.50,44.25,44.25,6160800,11.03  
1995-09-08,44.75,44.88,44.50,44.75,6243200,11.15  
1995-09-07,44.00,45.31,43.75,44.75,9373600,11.15  
1995-09-06,43.88,44.17,43.50,43.75,7175600,10.90  
1995-09-05,43.50,43.50,42.75,43.50,6443200,10.84  
1995-09-01,43.00,43.50,42.88,42.94,3532400,10.70  
1995-08-31,43.38,43.50,43.00,43.00,3148000,10.72  
1995-08-30,43.25,43.75,43.13,43.38,5482000,10.81

1995-08-29,43.00,43.25,42.50,43.13,11325600,10.75  
1995-08-28,44.88,45.00,43.00,43.00,8680000,10.72  
1995-08-25,45.88,45.88,44.63,44.75,4819200,11.15  
1995-08-24,45.63,46.25,45.50,45.75,10285200,11.40  
1995-08-23,44.88,45.88,44.63,45.50,9078000,11.34  
1995-08-22,44.38,45.13,44.13,44.75,7769200,11.15  
1995-08-21,44.88,45.38,44.13,44.13,9721200,11.00  
1995-08-18,44.88,45.13,43.75,44.88,8620000,11.19  
1995-08-17,44.63,45.50,44.13,44.63,8827600,11.12  
1995-08-16,44.00,44.50,43.63,44.50,10457600,11.09  
1995-08-15,43.88,44.13,43.13,44.06,11370800,10.95  
1995-08-14,43.00,43.75,42.88,43.38,5989200,10.78  
1995-08-11,42.88,43.13,41.88,43.06,7407600,10.70  
1995-08-10,43.13,43.25,42.63,42.75,5868000,10.63  
1995-08-09,42.63,43.75,42.50,43.13,13190000,10.72  
1995-08-08,43.63,43.75,42.38,42.50,8388800,10.56  
1995-08-07,44.13,44.63,43.13,43.38,6920000,10.78  
1995-08-04,45.00,45.13,43.75,44.25,6884400,11.00  
1995-08-03,44.13,45.63,43.88,45.00,7640800,11.18  
1995-08-02,43.88,45.00,43.75,44.38,9840800,11.03  
1995-08-01,44.88,44.88,43.50,43.50,7540000,10.81  
1995-07-31,45.50,45.63,44.75,45.00,5673600,11.18  
1995-07-28,46.75,47.25,45.00,45.50,9341200,11.31  
1995-07-27,45.50,47.50,45.50,46.81,11621200,11.63  
1995-07-26,46.25,46.25,45.38,45.38,6125200,11.28  
1995-07-25,46.00,46.38,45.63,45.75,9418000,11.37  
1995-07-24,44.00,45.50,43.75,45.38,7679200,11.28  
1995-07-21,43.00,44.88,43.00,43.75,27082400,10.87  
1995-07-20,46.00,47.38,45.00,47.06,11848800,11.70  
1995-07-19,47.00,48.00,45.00,45.50,18613200,11.31  
1995-07-18,49.00,49.56,47.75,48.13,9102000,11.96  
1995-07-17,48.88,49.75,48.63,49.00,8098000,12.18  
1995-07-14,47.38,49.00,47.00,48.75,9929200,12.12  
1995-07-13,47.38,48.75,47.13,47.63,12596400,11.84  
1995-07-12,47.25,48.00,46.13,47.00,10145200,11.68  
1995-07-11,47.75,48.63,47.06,47.13,7683200,11.71  
1995-07-10,48.63,49.88,48.13,48.63,10640800,12.09  
1995-07-07,46.88,49.25,46.75,48.63,13840000,12.09  
1995-07-06,46.50,47.00,45.75,47.00,6583200,11.68  
1995-07-05,46.88,47.88,46.50,46.50,6325600,11.56  
1995-07-03,46.50,47.13,46.25,46.94,1410800,11.67  
1995-06-30,47.25,47.88,46.13,46.44,5927600,11.54  
1995-06-29,46.38,48.13,46.00,47.25,8320000,11.74  
1995-06-28,46.00,47.50,45.38,46.63,9531200,11.59  
1995-06-27,47.38,48.25,46.38,46.38,7772400,11.53  
1995-06-26,48.25,48.50,47.63,48.13,5465600,11.96  
1995-06-23,48.75,49.00,47.75,48.75,8286800,12.12  
1995-06-22,49.00,49.63,48.63,49.13,16928800,12.21

1995-06-21,47.63,50.13,46.75,49.38,22378800,12.27  
1995-06-20,46.00,47.75,46.00,47.38,26385200,11.78  
1995-06-19,43.88,45.25,43.50,44.38,16774400,11.03  
1995-06-16,43.88,44.00,43.50,43.88,3200800,10.91  
1995-06-15,43.63,43.75,43.38,43.63,3331200,10.84  
1995-06-14,43.88,43.88,43.38,43.63,4224800,10.84  
1995-06-13,44.50,44.63,43.88,44.00,4508000,10.94  
1995-06-12,44.00,44.50,43.88,44.17,7584400,10.98  
1995-06-09,43.63,43.75,43.13,43.50,6679200,10.81  
1995-06-08,43.38,43.38,42.13,42.94,4874400,10.67  
1995-06-07,44.13,44.13,43.13,43.13,4451200,10.72  
1995-06-06,43.63,44.38,43.50,44.00,11270800,10.94  
1995-06-05,42.38,43.50,42.13,43.50,9103200,10.81  
1995-06-02,41.88,42.38,41.50,42.13,3783200,10.47  
1995-06-01,41.88,42.50,41.75,42.19,6685200,10.49  
1995-05-31,42.13,42.13,41.00,41.56,5707600,10.33  
1995-05-30,42.63,42.88,41.50,42.00,7021200,10.44  
1995-05-26,43.00,43.13,42.25,42.69,4097600,10.61  
1995-05-25,43.25,44.00,43.00,43.38,6536800,10.75  
1995-05-24,43.75,44.25,42.88,43.50,9459200,10.78  
1995-05-23,44.13,44.38,43.50,43.88,9881200,10.88  
1995-05-22,42.50,44.13,42.25,44.13,13282400,10.94  
1995-05-19,42.88,43.75,42.63,42.75,11522000,10.60  
1995-05-18,44.13,44.13,43.25,43.38,13287600,10.75  
1995-05-17,43.75,44.38,43.50,44.00,9419200,10.91  
1995-05-16,43.13,44.38,42.50,43.75,11895600,10.84  
1995-05-15,43.13,43.75,42.50,43.63,14053200,10.81  
1995-05-12,40.88,43.69,40.50,43.63,23153200,10.81  
1995-05-11,41.63,41.63,40.38,41.00,18712400,10.16  
1995-05-10,41.50,41.88,40.75,41.44,9837600,10.27  
1995-05-09,40.63,41.38,40.00,41.25,11540800,10.22  
1995-05-08,39.88,41.00,39.75,40.50,13832000,10.04  
1995-05-05,38.75,39.13,38.13,38.88,7445200,9.64  
1995-05-04,38.25,39.88,38.00,38.50,10846800,9.54  
1995-05-03,38.25,38.63,38.00,38.13,6043600,9.45  
1995-05-02,38.25,38.38,37.50,38.13,4289200,9.45  
1995-05-01,38.25,38.75,38.00,38.25,6375600,9.48  
1995-04-28,38.00,38.38,37.50,38.25,6984400,9.48  
1995-04-27,38.50,38.50,37.75,37.88,5014800,9.39  
1995-04-26,37.63,38.75,37.38,38.25,8246800,9.48  
1995-04-25,39.13,39.38,37.25,37.75,9780000,9.36  
1995-04-24,39.00,39.63,38.50,39.00,9724400,9.67  
1995-04-21,37.25,39.50,37.13,39.13,23812400,9.70  
1995-04-20,37.13,38.50,36.63,37.63,11772400,9.33  
1995-04-19,37.50,37.50,35.63,36.38,9990800,9.02  
1995-04-18,38.50,38.63,37.50,37.50,8263200,9.29  
1995-04-17,38.13,39.38,37.88,38.38,7467600,9.51  
1995-04-13,39.25,39.25,37.88,38.25,6242400,9.48

1995-04-12,38.25,39.63,37.38,39.00,16973200,9.67  
1995-04-11,36.75,37.88,36.63,37.75,7673200,9.36  
1995-04-10,36.88,37.00,36.13,36.63,4211200,9.08  
1995-04-07,37.00,37.13,36.25,36.75,10562400,9.11  
1995-04-06,37.25,38.00,35.53,36.75,25823600,9.11  
1995-04-05,34.13,34.75,33.75,34.75,9470000,8.61  
1995-04-04,35.75,35.88,33.63,33.88,15300000,8.40  
1995-04-03,35.50,35.75,35.13,35.50,5528000,8.80  
1995-03-31,35.13,35.63,34.75,35.25,6558000,8.74  
1995-03-30,34.63,35.50,34.50,35.38,9767600,8.77  
1995-03-29,34.00,34.88,33.88,34.38,17760000,8.52  
1995-03-28,36.25,36.34,34.13,34.38,24655600,8.52  
1995-03-27,37.63,37.63,36.63,37.19,5111200,9.22  
1995-03-24,37.38,37.88,37.25,37.75,4584400,9.36  
1995-03-23,37.88,38.00,36.98,37.13,6094400,9.20  
1995-03-22,36.25,39.50,36.25,38.06,17130800,9.43  
1995-03-21,35.50,36.75,35.25,36.25,10920800,8.98  
1995-03-20,35.13,35.63,35.00,35.25,6793600,8.74  
1995-03-17,35.50,35.50,34.88,35.13,7713600,8.71  
1995-03-16,35.25,36.00,35.00,35.25,11330000,8.74  
1995-03-15,35.50,36.25,34.88,35.00,26120800,8.67  
1995-03-14,38.25,38.25,34.50,35.00,26015200,8.67  
1995-03-13,39.63,39.63,38.00,38.13,11653200,9.45  
1995-03-10,39.63,40.38,39.38,39.50,4923200,9.79  
1995-03-09,39.88,40.38,39.38,39.75,7038000,9.85  
1995-03-08,38.75,40.13,37.75,39.56,13048800,9.81  
1995-03-07,39.88,39.88,38.25,38.31,5399200,9.50  
1995-03-06,39.75,40.00,39.50,39.75,4751200,9.85  
1995-03-03,39.75,40.69,39.50,40.25,5209200,9.98  
1995-03-02,40.13,40.75,39.75,40.00,9619200,9.91  
1995-03-01,39.75,40.13,39.42,40.00,8025200,9.91  
1995-02-28,38.50,39.88,38.00,39.50,7965200,9.79  
1995-02-27,38.25,39.00,38.11,38.25,9600800,9.48  
1995-02-24,40.13,40.38,38.50,39.00,20334400,9.67  
1995-02-23,41.13,41.88,40.00,40.19,11262000,9.96  
1995-02-22,40.63,41.00,40.13,40.81,10501200,10.12  
1995-02-21,42.63,42.75,40.88,41.00,10776800,10.16  
1995-02-17,42.88,43.00,42.50,42.50,4366400,10.53  
1995-02-16,43.13,43.25,42.63,43.19,7821200,10.70  
1995-02-15,43.25,43.50,42.50,42.56,6604400,10.55  
1995-02-14,43.75,44.13,42.63,42.94,5934400,10.64  
1995-02-13,43.50,44.50,43.25,43.75,10120800,10.84  
1995-02-10,43.63,44.19,43.38,43.75,12542400,10.81  
1995-02-09,42.13,43.88,42.13,43.63,16988800,10.78  
1995-02-08,41.00,42.38,40.88,42.31,14403600,10.46  
1995-02-07,40.38,41.00,40.00,40.81,7200000,10.09  
1995-02-06,40.75,40.75,39.50,40.50,8702000,10.01  
1995-02-03,42.00,42.13,40.38,40.50,11400800,10.01

1995-02-02,40.13,41.88,40.13,41.63,7288000,10.29  
1995-02-01,40.75,40.75,39.88,40.13,5665200,9.92  
1995-01-31,40.50,40.88,40.00,40.38,7621200,9.98  
1995-01-30,40.13,40.50,39.88,40.13,8255200,9.92  
1995-01-27,39.88,40.38,39.00,39.88,10676400,9.86  
1995-01-26,40.88,41.50,39.25,39.50,8822000,9.76  
1995-01-25,39.50,42.00,39.50,40.98,18482000,10.13  
1995-01-24,42.25,42.38,41.38,41.63,7805600,10.29  
1995-01-23,41.88,42.63,41.00,42.25,14252400,10.44  
1995-01-20,47.00,47.00,42.50,42.63,35731200,10.54  
1995-01-19,45.50,46.00,45.00,45.88,11238800,11.34  
1995-01-18,45.00,45.63,44.75,45.63,4581200,11.28  
1995-01-17,44.50,45.50,44.13,45.00,11806400,11.12  
1995-01-16,44.88,45.25,44.25,44.50,6765600,11.00  
1995-01-13,46.13,46.13,44.38,44.88,12565600,11.09  
1995-01-12,46.13,46.38,44.75,45.38,19721200,11.22  
1995-01-11,43.75,48.06,42.69,46.75,31212400,11.56  
1995-01-10,41.25,44.00,41.25,43.69,21977600,10.80  
1995-01-09,41.63,41.88,41.00,41.20,9805200,10.18  
1995-01-06,41.63,43.13,41.13,42.00,38456800,10.38  
1995-01-05,39.25,39.38,38.75,38.88,2646800,9.61  
1995-01-04,38.63,39.63,38.63,39.38,5682400,9.73  
1995-01-03,38.88,38.88,37.88,38.38,3726400,9.49  
1994-12-30,39.38,39.88,38.75,39.00,2616400,9.64  
1994-12-29,39.25,39.88,39.13,39.50,4341200,9.76  
1994-12-28,39.13,39.25,38.25,39.13,3198000,9.67  
1994-12-27,39.25,39.75,38.88,39.13,2928800,9.67  
1994-12-23,38.50,39.38,38.50,38.88,3372000,9.61  
1994-12-22,38.50,38.88,38.25,38.63,4771200,9.55  
1994-12-21,37.88,38.50,37.50,38.38,5635600,9.49  
1994-12-20,39.13,39.25,38.38,38.50,6263600,9.52  
1994-12-19,37.25,39.38,37.25,39.13,11890000,9.67  
1994-12-16,37.25,37.75,36.75,37.25,6432400,9.21  
1994-12-15,38.00,38.38,36.88,37.13,8133200,9.18  
1994-12-14,36.50,38.13,36.50,37.88,11123600,9.36  
1994-12-13,36.63,36.94,36.25,36.38,4266800,8.99  
1994-12-12,36.38,36.75,35.50,36.50,8004400,9.02  
1994-12-09,35.88,36.38,34.75,36.25,9329200,8.96  
1994-12-08,36.88,37.00,35.75,35.88,6081200,8.87  
1994-12-07,37.50,37.81,36.06,36.63,4916800,9.05  
1994-12-06,37.00,38.38,36.88,37.56,8516400,9.28  
1994-12-05,36.50,37.38,36.13,37.19,6460000,9.19  
1994-12-02,36.50,36.75,35.63,36.56,6170000,9.04  
1994-12-01,37.00,37.63,36.00,36.19,11051200,8.95  
1994-11-30,38.38,39.38,37.00,37.25,11157600,9.21  
1994-11-29,38.00,38.50,37.75,38.25,5163200,9.45  
1994-11-28,37.63,38.25,37.31,37.81,4971200,9.35  
1994-11-25,36.88,37.75,36.75,37.75,3012400,9.33



1994-11-23,37.00,37.88,36.38,36.88,11723200,9.12  
1994-11-22,37.75,39.13,37.25,37.38,8018800,9.24  
1994-11-21,40.00,40.25,38.00,38.13,7255600,9.42  
1994-11-18,40.00,40.50,39.63,40.00,5257600,9.89  
1994-11-17,40.88,41.00,39.88,40.00,5380000,9.86  
1994-11-16,40.75,41.56,40.63,40.94,6700000,10.09  
1994-11-15,42.50,43.00,41.25,41.38,6001200,10.20  
1994-11-14,41.25,42.75,41.25,42.50,5002000,10.47  
1994-11-11,41.25,41.50,41.00,41.13,2237600,10.14  
1994-11-10,41.75,41.88,41.00,41.31,5476800,10.18  
1994-11-09,42.75,43.00,41.00,41.63,14530000,10.26  
1994-11-08,40.63,42.63,40.25,42.25,12476400,10.41  
1994-11-07,40.38,41.25,40.13,40.75,4058000,10.04  
1994-11-04,41.50,41.63,40.00,40.38,6869200,9.95  
1994-11-03,41.75,42.00,41.00,41.50,3962400,10.23  
1994-11-02,43.13,43.25,41.38,41.38,7819200,10.20  
1994-11-01,42.88,43.48,42.38,43.13,7805600,10.63  
1994-10-31,42.00,43.38,41.50,43.19,12728000,10.64  
1994-10-28,42.38,42.88,41.75,42.13,9762400,10.38  
1994-10-27,43.25,43.75,42.50,42.75,5700800,10.54  
1994-10-26,42.63,43.27,42.63,43.25,7043200,10.66  
1994-10-25,41.63,42.63,41.50,42.63,10771200,10.51  
1994-10-24,42.75,43.13,41.88,42.25,7316800,10.41  
1994-10-21,40.75,42.75,40.75,42.63,11528000,10.51  
1994-10-20,41.25,41.81,40.50,41.00,7808000,10.10  
1994-10-19,41.00,42.13,41.00,41.25,12549200,10.17  
1994-10-18,40.63,41.63,40.50,41.25,16749200,10.17  
1994-10-17,40.88,41.50,38.88,39.75,10866400,9.80  
1994-10-14,41.50,42.00,40.88,41.13,6292000,10.14  
1994-10-13,42.63,42.88,40.63,41.13,18761200,10.14  
1994-10-12,39.63,42.63,39.13,42.13,21340000,10.38  
1994-10-11,41.38,41.88,39.38,39.63,30083600,9.77  
1994-10-10,37.13,39.63,37.00,38.88,18700800,9.58  
1994-10-07,36.13,37.06,35.50,37.00,13022000,9.12  
1994-10-06,37.38,37.48,36.00,36.25,18828800,8.93  
1994-10-05,33.63,38.13,33.38,37.88,25366800,9.33  
1994-10-04,33.25,34.00,33.00,33.75,5822000,8.32  
1994-10-03,33.63,33.75,32.50,33.13,4644400,8.16  
1994-09-30,34.13,34.50,33.63,33.69,2561200,8.30  
1994-09-29,33.75,34.38,33.38,34.13,3921200,8.41  
1994-09-28,34.00,34.38,33.63,33.88,2914800,8.35  
1994-09-27,33.75,34.13,33.38,33.88,3904800,8.35  
1994-09-26,33.88,34.50,33.63,33.94,5072400,8.36  
1994-09-23,33.88,34.50,33.88,33.94,4760000,8.36  
1994-09-22,34.25,34.25,33.63,33.88,5235600,8.35  
1994-09-21,34.50,34.63,33.75,34.13,8402400,8.41  
1994-09-20,35.13,35.38,34.38,34.56,7047600,8.52  
1994-09-19,36.38,36.75,35.50,35.50,6242000,8.75

1994-09-16,35.88,37.25,35.50,36.38,13008000,8.97  
1994-09-15,35.13,36.13,35.13,36.00,9253200,8.87  
1994-09-14,35.63,35.75,35.00,35.13,3549200,8.66  
1994-09-13,35.75,36.25,35.63,35.81,3723600,8.82  
1994-09-12,35.63,35.75,35.38,35.75,3252400,8.81  
1994-09-09,35.75,36.00,35.38,35.75,5624400,8.81  
1994-09-08,36.00,36.25,35.63,36.13,5691200,8.90  
1994-09-07,35.63,36.63,35.38,36.13,7283200,8.90  
1994-09-06,35.25,35.63,35.00,35.56,3279200,8.76  
1994-09-02,35.25,35.50,35.00,35.38,3628000,8.72  
1994-09-01,35.38,35.75,34.63,35.00,7305200,8.63  
1994-08-31,36.00,37.38,35.75,36.19,12568800,8.92  
1994-08-30,35.25,36.38,35.13,36.25,6515600,8.93  
1994-08-29,35.75,36.13,35.25,35.38,5450800,8.72  
1994-08-26,35.25,36.13,35.25,35.75,7300000,8.81  
1994-08-25,34.25,36.38,34.25,35.06,10688800,8.64  
1994-08-24,34.75,35.00,34.38,34.88,6132400,8.60  
1994-08-23,34.88,35.88,34.75,35.00,7669200,8.63  
1994-08-22,34.75,35.00,34.63,34.88,5445600,8.60  
1994-08-19,34.75,35.00,34.25,34.88,4674800,8.60  
1994-08-18,34.75,35.25,34.50,34.63,7370000,8.53  
1994-08-17,34.88,35.38,34.63,35.00,10232400,8.63  
1994-08-16,34.38,34.75,34.00,34.75,5563200,8.56  
1994-08-15,34.75,35.00,34.25,34.63,4293200,8.53  
1994-08-12,34.38,35.13,33.88,34.75,6425200,8.53  
1994-08-11,34.25,35.13,33.88,34.31,10649200,8.43  
1994-08-10,33.63,34.88,33.25,34.63,9065200,8.50  
1994-08-09,33.50,33.88,33.13,33.63,2811200,8.26  
1994-08-08,33.13,34.00,33.00,33.75,5048800,8.29  
1994-08-05,32.88,33.38,32.88,33.25,3123200,8.17  
1994-08-04,33.13,33.75,33.13,33.25,6620000,8.17  
1994-08-03,32.75,33.25,32.13,33.13,8113600,8.14  
1994-08-02,33.50,33.63,32.38,32.56,9642400,8.00  
1994-08-01,33.63,33.75,32.75,33.38,8204400,8.20  
1994-07-29,31.87,34.00,31.87,33.69,19853600,8.27  
1994-07-28,31.00,32.13,30.87,31.87,8762000,7.83  
1994-07-27,31.25,31.37,30.62,31.06,4788000,7.63  
1994-07-26,31.75,32.00,31.12,31.37,6756400,7.70  
1994-07-25,31.12,31.87,30.75,31.69,15103200,7.78  
1994-07-22,31.62,31.97,30.00,31.00,28098800,7.61  
1994-07-21,26.62,28.50,26.50,28.00,10348800,6.88  
1994-07-20,27.37,27.62,26.37,26.62,7765200,6.54  
1994-07-19,28.62,28.75,27.37,27.69,4176400,6.80  
1994-07-18,28.12,29.00,28.00,28.37,2734800,6.97  
1994-07-15,28.23,28.62,27.50,28.25,3409200,6.94  
1994-07-14,29.62,29.75,28.25,28.62,6459200,7.03  
1994-07-13,28.50,30.25,28.50,29.69,16081200,7.29  
1994-07-12,27.00,28.44,26.37,28.37,8662000,6.97

1994-07-11,27.12,27.37,26.62,27.00,3801200,6.63  
1994-07-08,26.50,27.62,26.50,27.06,7457600,6.65  
1994-07-07,25.87,27.00,25.50,26.81,6097600,6.58  
1994-07-06,26.25,26.50,26.00,26.12,3499200,6.41  
1994-07-05,25.62,26.75,25.62,26.50,3080800,6.51  
1994-07-01,26.37,26.50,25.37,25.75,6404400,6.32  
1994-06-30,26.25,26.87,26.25,26.50,3652000,6.51  
1994-06-29,26.75,27.12,25.87,26.12,4842400,6.41  
1994-06-28,26.25,27.12,25.62,26.75,6235200,6.57  
1994-06-27,25.25,26.25,24.62,26.25,9153200,6.45  
1994-06-24,25.12,26.12,24.75,25.61,10470000,6.29  
1994-06-23,26.25,26.25,24.87,25.12,7283200,6.17  
1994-06-22,26.25,26.75,26.00,26.25,4081200,6.45  
1994-06-21,26.87,27.25,25.75,26.00,8693200,6.39  
1994-06-20,26.25,27.25,26.00,27.12,7150000,6.66  
1994-06-17,26.00,26.75,25.87,26.50,8027600,6.51  
1994-06-16,27.75,27.75,26.12,26.37,7812400,6.48  
1994-06-15,27.00,28.00,26.87,27.81,5704400,6.83  
1994-06-14,27.25,27.37,26.62,27.06,5531200,6.65  
1994-06-13,26.37,27.19,26.37,27.00,3339200,6.63  
1994-06-10,27.12,27.37,26.37,26.50,5107600,6.51  
1994-06-09,25.62,27.00,25.50,27.00,10485200,6.63  
1994-06-08,27.50,27.62,26.00,26.12,9809200,6.41  
1994-06-07,27.25,27.75,27.25,27.50,5013600,6.75  
1994-06-06,27.50,27.75,27.00,27.37,4513200,6.72  
1994-06-03,27.12,28.00,26.75,27.62,12649200,6.78  
1994-06-02,28.37,28.50,27.12,27.37,13762400,6.72  
1994-06-01,28.50,28.62,27.87,28.25,13786800,6.94  
1994-05-31,29.50,29.50,28.50,29.25,9211200,7.18  
1994-05-27,30.25,30.75,29.50,29.94,3882400,7.35  
1994-05-26,31.50,31.50,30.25,30.50,2613200,7.46  
1994-05-25,30.25,31.75,30.00,31.25,4873200,7.64  
1994-05-24,31.00,31.25,30.25,30.75,4536400,7.52  
1994-05-23,31.00,31.25,30.00,30.50,4286400,7.46  
1994-05-20,31.75,32.25,31.00,31.06,3519200,7.60  
1994-05-19,30.75,32.50,30.50,32.13,9776800,7.86  
1994-05-18,29.75,30.75,29.25,30.62,4436800,7.49  
1994-05-17,29.75,29.75,28.75,29.37,6450800,7.18  
1994-05-16,30.00,30.50,29.50,29.50,4854800,7.22  
1994-05-13,29.75,30.50,29.25,30.00,3323200,7.34  
1994-05-12,30.50,30.75,29.50,29.69,3839200,7.26  
1994-05-11,31.00,31.50,29.75,30.25,5218000,7.40  
1994-05-10,31.75,32.00,31.00,31.00,5246800,7.58  
1994-05-09,32.25,32.50,30.75,31.25,5026400,7.64  
1994-05-06,32.25,32.75,31.25,32.31,6721200,7.90  
1994-05-05,33.25,33.75,32.25,32.88,10307600,8.04  
1994-05-04,31.00,33.25,30.50,33.00,13008800,8.07  
1994-05-03,31.00,31.25,29.50,30.25,4761200,7.40

1994-05-02,30.00,31.25,30.00,31.00,4401200,7.58  
1994-04-29,30.00,30.50,29.75,30.00,3399200,7.34  
1994-04-28,31.00,31.25,29.75,30.25,3604400,7.40  
1994-04-26,31.50,31.50,31.00,31.25,5879200,7.64  
1994-04-25,29.75,31.00,29.50,31.00,12846800,7.58  
1994-04-22,31.25,32.00,28.50,29.75,24923600,7.28  
1994-04-21,28.50,30.50,27.00,29.62,14674400,7.25  
1994-04-20,29.25,30.00,28.00,28.25,10080800,6.91  
1994-04-19,29.75,30.00,28.50,29.00,5947600,7.09  
1994-04-18,30.50,30.50,29.25,29.62,8238800,7.25  
1994-04-15,31.25,31.50,30.00,30.25,6730800,7.40  
1994-04-14,30.50,31.75,30.00,31.50,7933200,7.71  
1994-04-13,32.25,32.50,31.25,31.75,8330000,7.77  
1994-04-12,33.38,33.38,31.75,32.00,4890800,7.83  
1994-04-11,33.50,33.50,32.50,33.50,3823600,8.19  
1994-04-08,33.75,34.00,33.25,33.50,6336400,8.19  
1994-04-07,33.50,33.75,32.75,33.38,2764800,8.17  
1994-04-06,34.00,34.00,32.75,33.50,4616400,8.19  
1994-04-05,33.75,34.25,33.50,33.50,3505600,8.19  
1994-04-04,32.25,33.25,31.75,33.25,6016800,8.13  
1994-03-31,32.50,33.50,31.50,33.25,7481200,8.13  
1994-03-30,32.50,33.25,31.75,32.50,6079200,7.95  
1994-03-29,33.25,33.75,32.25,32.75,7640000,8.01  
1994-03-28,33.00,34.00,32.75,33.25,10098800,8.13  
1994-03-25,34.75,34.75,32.75,32.75,12291200,8.01  
1994-03-24,35.13,35.25,34.00,34.63,6738800,8.47  
1994-03-23,35.25,35.50,34.25,35.13,7749200,8.59  
1994-03-22,35.25,35.50,34.50,35.00,8690800,8.56  
1994-03-21,36.38,36.50,35.25,35.50,8806400,8.68  
1994-03-18,36.75,36.75,35.75,36.38,8004400,8.90  
1994-03-17,36.75,37.00,36.25,36.50,5590800,8.93  
1994-03-16,37.50,37.75,36.50,36.75,5265200,8.99  
1994-03-15,38.25,38.25,37.25,37.63,7319200,9.20  
1994-03-14,38.50,38.50,37.75,38.13,15783600,9.33  
1994-03-11,37.00,37.75,36.75,37.25,5791200,9.11  
1994-03-10,37.25,37.63,36.75,37.25,5142400,9.11  
1994-03-09,36.63,37.50,36.00,37.50,8896800,9.17  
1994-03-08,38.00,38.00,36.75,37.00,6647600,9.05  
1994-03-07,37.00,38.13,36.75,37.88,11088800,9.27  
1994-03-04,36.00,37.50,35.75,36.75,8113600,8.99  
1994-03-03,35.75,36.25,35.50,35.75,6737600,8.75  
1994-03-02,35.25,36.25,34.75,35.63,10519200,8.72  
1994-03-01,36.75,36.75,35.75,36.25,7570800,8.87  
1994-02-28,36.25,37.00,36.00,36.50,4434800,8.93  
1994-02-25,37.00,37.25,35.50,36.00,8468000,8.81  
1994-02-24,37.00,37.25,36.25,36.63,7081200,8.96  
1994-02-23,37.25,38.25,37.00,37.25,9318800,9.11  
1994-02-22,36.25,37.50,35.75,37.25,7676400,9.11

1994-02-18,36.50,37.00,36.25,36.25,5326400,8.87  
1994-02-17,37.25,37.88,36.25,37.00,5197600,9.05  
1994-02-16,37.50,37.50,36.75,36.75,4379200,8.99  
1994-02-15,36.75,37.50,36.25,37.13,4654400,9.08  
1994-02-14,37.00,38.00,36.75,37.00,8775200,9.05  
1994-02-11,36.25,37.50,36.25,37.00,5880800,9.05  
1994-02-10,36.25,37.50,36.00,36.50,10802000,8.93  
1994-02-09,35.75,36.50,35.25,36.25,6699200,8.87  
1994-02-08,36.00,36.50,35.25,35.75,10210800,8.75  
1994-02-07,33.50,37.13,33.50,36.50,25925200,8.93  
1994-02-04,33.50,35.00,33.25,33.50,12645200,8.17  
1994-02-03,33.00,33.63,32.50,33.50,4933200,8.17  
1994-02-02,33.25,33.25,32.50,33.00,5247600,8.04  
1994-02-01,33.00,33.50,32.25,33.25,5618000,8.10  
1994-01-31,33.50,33.75,32.75,32.75,8532400,7.98  
1994-01-28,34.25,34.75,33.75,34.00,4891200,8.29  
1994-01-27,33.50,34.25,33.00,34.13,4724800,8.32  
1994-01-26,33.75,34.00,33.25,33.50,5922400,8.17  
1994-01-25,34.75,35.00,33.25,33.88,15818800,8.26  
1994-01-24,33.25,35.25,33.25,35.00,24742000,8.53  
1994-01-21,33.25,33.50,32.25,33.38,35007600,8.14  
1994-01-20,29.50,30.75,29.50,29.87,9582400,7.28  
1994-01-19,29.25,29.75,28.75,29.25,10066400,7.13  
1994-01-18,30.25,30.25,29.00,29.37,12978000,7.16  
1994-01-17,31.00,31.50,30.00,30.37,5206400,7.40  
1994-01-14,30.75,31.75,30.50,31.00,7673200,7.56  
1994-01-13,30.00,30.75,29.75,30.62,19000000,7.46  
1994-01-12,32.25,32.25,30.50,30.50,15684400,7.43  
1994-01-11,33.50,33.75,31.75,31.87,12700000,7.77  
1994-01-10,33.00,33.88,32.75,33.63,7222000,8.20  
1994-01-07,32.00,33.25,31.25,33.13,10688800,8.08  
1994-01-06,33.75,34.00,32.50,32.75,13095200,7.98  
1994-01-05,31.75,33.88,31.75,33.75,21874400,8.23  
1994-01-04,30.25,31.50,30.00,31.50,10198800,7.68  
1994-01-03,29.50,30.00,29.00,29.87,6485200,7.28  
1993-12-31,29.75,30.25,29.25,29.25,5765200,7.13  
1993-12-30,28.50,30.25,28.50,29.75,11253200,7.25  
1993-12-29,29.25,29.25,28.50,28.50,3853200,6.95  
1993-12-28,28.75,29.50,28.50,29.12,5705600,7.10  
1993-12-27,27.75,28.75,27.25,28.50,5730000,6.95  
1993-12-23,27.25,27.25,26.50,27.25,8120000,6.64  
1993-12-22,27.25,28.50,27.00,28.00,6498800,6.82  
1993-12-21,28.50,28.75,27.25,27.50,8973600,6.70  
1993-12-20,29.25,29.75,28.25,28.50,6768800,6.95  
1993-12-17,29.50,29.75,29.12,29.50,5197600,7.19  
1993-12-16,29.50,29.75,29.00,29.37,4532000,7.16  
1993-12-15,29.00,29.75,29.00,29.75,4438000,7.25  
1993-12-14,29.25,29.75,29.00,29.12,10492400,7.10

1993-12-13,28.25,29.50,27.75,29.50,8729200,7.19  
1993-12-10,30.25,30.50,27.75,28.25,17781200,6.89  
1993-12-09,31.75,32.00,29.75,30.00,6531200,7.31  
1993-12-08,32.00,32.25,31.50,31.87,1422000,7.77  
1993-12-07,32.00,32.25,31.50,32.25,2280800,7.86  
1993-12-06,31.50,32.50,31.25,32.25,5610000,7.86  
1993-12-03,31.75,32.00,31.00,31.50,4314800,7.68  
1993-12-02,31.75,32.00,31.00,31.75,3614400,7.74  
1993-12-01,32.00,32.25,31.25,31.50,3978800,7.68  
1993-11-30,31.75,32.63,31.50,31.50,4036800,7.68  
1993-11-29,32.25,32.50,31.50,31.75,3462000,7.74  
1993-11-26,32.75,33.00,32.25,32.63,1569200,7.95  
1993-11-24,32.75,33.50,32.63,33.00,3246800,8.04  
1993-11-23,32.50,33.00,31.25,33.00,6653600,8.04  
1993-11-22,32.75,33.00,32.25,32.50,5389200,7.92  
1993-11-19,33.00,33.50,32.50,33.00,4409200,8.04  
1993-11-18,33.50,33.75,33.00,33.50,4089200,8.14  
1993-11-17,34.00,35.00,32.75,33.50,10812400,8.14  
1993-11-16,32.00,34.25,31.75,34.00,10838000,8.26  
1993-11-15,31.50,32.75,31.50,32.00,5616800,7.77  
1993-11-12,31.50,32.00,30.50,31.75,5136800,7.71  
1993-11-11,30.75,32.00,30.50,31.37,5090800,7.62  
1993-11-10,30.25,30.75,30.00,30.75,2765600,7.47  
1993-11-09,31.00,31.25,29.75,30.12,6136400,7.32  
1993-11-08,32.00,32.13,30.50,30.75,5966400,7.47  
1993-11-05,31.87,32.25,30.75,31.87,13513200,7.74  
1993-11-04,31.50,32.25,30.75,32.25,6632000,7.83  
1993-11-03,33.00,33.00,31.00,31.62,6320000,7.68  
1993-11-02,31.25,33.00,31.00,32.75,8013600,7.95  
1993-11-01,30.75,31.50,30.25,31.50,3798800,7.65  
1993-10-29,31.00,31.75,30.50,30.75,4892400,7.47  
1993-10-28,31.75,32.25,31.00,31.00,8736800,7.53  
1993-10-27,30.00,32.25,29.75,31.75,16415200,7.71  
1993-10-26,29.75,30.00,29.00,29.75,7960000,7.23  
1993-10-25,30.25,30.50,29.62,30.00,7840800,7.29  
1993-10-22,30.50,31.50,29.75,30.25,14160000,7.35  
1993-10-21,27.50,31.25,27.25,30.25,22417600,7.35  
1993-10-20,28.00,28.25,27.25,27.75,4956400,6.74  
1993-10-19,28.25,28.50,27.25,27.75,7643200,6.74  
1993-10-18,28.00,28.75,27.75,28.37,11900000,6.89  
1993-10-15,27.75,28.50,26.75,28.25,34136400,6.86  
1993-10-14,24.00,24.50,23.50,23.75,5749200,5.77  
1993-10-13,24.25,24.25,23.50,24.00,6322400,5.83  
1993-10-12,24.00,25.00,23.75,24.00,10952400,5.83  
1993-10-11,22.75,24.00,22.75,23.75,5775200,5.77  
1993-10-08,23.25,23.25,22.25,22.62,4989200,5.49  
1993-10-07,23.50,23.75,22.75,23.00,4828000,5.59  
1993-10-06,23.75,24.00,23.37,23.62,6271200,5.74

1993-10-05,23.00,24.00,23.00,23.50,6306400,5.71  
1993-10-04,22.62,23.00,22.00,22.75,6891200,5.53  
1993-10-01,22.75,23.00,22.50,22.75,12022000,5.53  
1993-09-30,24.00,24.00,23.00,23.37,9828000,5.68  
1993-09-29,24.25,24.87,23.75,23.87,8463600,5.80  
1993-09-28,24.75,25.00,24.25,24.75,3386400,6.01  
1993-09-27,25.00,25.25,24.25,24.75,4043200,6.01  
1993-09-24,25.00,25.25,24.50,25.00,2743200,6.07  
1993-09-23,25.50,25.50,24.50,24.75,4697600,6.01  
1993-09-22,24.25,25.50,24.25,25.50,3960800,6.19  
1993-09-21,24.75,25.25,23.87,24.50,5250000,5.95  
1993-09-20,25.25,25.50,24.75,24.87,3968800,6.04  
1993-09-17,24.37,25.50,24.25,25.25,6157600,6.13  
1993-09-16,24.25,25.00,24.25,24.75,3086800,6.01  
1993-09-15,24.50,25.00,23.50,24.50,9206800,5.95  
1993-09-14,24.25,25.00,24.00,24.25,9880000,5.89  
1993-09-13,26.25,26.50,24.75,25.25,9143600,6.13  
1993-09-10,26.25,26.25,25.37,26.25,4804800,6.38  
1993-09-09,26.75,27.00,26.00,26.00,5352000,6.31  
1993-09-08,26.25,27.00,26.00,26.75,8102000,6.50  
1993-09-07,26.00,27.00,25.75,26.25,5130000,6.38  
1993-09-03,26.00,26.00,25.25,25.75,5830000,6.25  
1993-09-02,26.00,26.25,25.25,25.75,10081200,6.25  
1993-09-01,26.50,26.75,25.75,26.12,8065200,6.34  
1993-08-31,26.50,26.75,26.00,26.50,4570800,6.44  
1993-08-30,26.50,26.50,25.87,26.00,9785600,6.31  
1993-08-27,27.00,27.00,26.25,26.50,6676400,6.44  
1993-08-26,27.25,27.25,26.50,26.87,6296800,6.53  
1993-08-25,28.00,28.25,26.75,27.25,5209200,6.62  
1993-08-24,28.25,28.75,27.75,28.00,3625600,6.80  
1993-08-23,28.00,28.75,27.50,28.37,3265600,6.89  
1993-08-20,27.75,28.00,27.00,28.00,3574400,6.80  
1993-08-19,28.75,28.75,27.50,27.50,5452000,6.68  
1993-08-18,29.00,29.75,28.25,28.50,6751200,6.92  
1993-08-17,27.75,28.50,27.25,28.37,3876800,6.89  
1993-08-16,27.50,28.00,27.25,27.50,3669200,6.68  
1993-08-13,26.50,27.75,26.25,27.37,4978800,6.62  
1993-08-12,27.50,27.75,26.00,26.50,12098800,6.41  
1993-08-11,28.50,28.50,27.00,27.50,5965200,6.65  
1993-08-10,29.50,29.75,28.25,28.50,5465600,6.89  
1993-08-09,29.25,30.25,29.00,29.75,5767600,7.19  
1993-08-06,29.25,30.25,29.25,29.25,4506800,7.07  
1993-08-05,30.75,30.75,29.00,29.50,7498800,7.13  
1993-08-04,29.25,30.50,29.00,30.25,8700000,7.31  
1993-08-03,29.00,29.25,28.75,29.00,6315600,7.01  
1993-08-02,28.25,29.25,28.00,28.50,7728000,6.89  
1993-07-30,27.50,28.25,27.00,27.75,7669200,6.71  
1993-07-29,27.00,27.50,26.75,27.25,4343200,6.59

1993-07-28,26.25,27.00,26.25,26.87,3300000,6.50  
1993-07-27,26.75,27.50,26.25,26.50,7100800,6.41  
1993-07-26,26.75,27.50,26.00,26.87,5468000,6.50  
1993-07-23,27.00,27.50,26.00,26.25,8365600,6.35  
1993-07-22,26.00,27.00,25.75,26.50,7554400,6.41  
1993-07-21,26.00,26.75,25.50,26.25,16283600,6.35  
1993-07-20,26.25,27.75,25.75,26.87,19017600,6.50  
1993-07-19,28.00,28.75,25.50,25.62,28813200,6.20  
1993-07-16,28.50,29.62,26.50,27.50,75744400,6.65  
1993-07-15,37.25,37.75,35.25,35.75,12091200,8.64  
1993-07-14,36.75,37.50,35.75,37.25,8816800,9.01  
1993-07-13,38.75,38.75,37.00,37.25,5650800,9.01  
1993-07-12,36.75,38.13,36.25,38.00,6215600,9.19  
1993-07-09,37.00,37.25,36.50,36.75,5604400,8.89  
1993-07-08,36.50,37.50,36.25,36.50,4964800,8.83  
1993-07-07,37.50,37.88,36.25,36.50,8124400,8.83  
1993-07-06,38.25,39.00,37.50,37.75,5558800,9.13  
1993-07-02,38.25,38.75,37.75,38.50,6846400,9.31  
1993-07-01,39.00,39.75,38.00,38.00,7809200,9.19  
1993-06-30,38.75,39.75,38.50,39.50,7170000,9.55  
1993-06-29,40.25,40.25,38.50,39.00,10526400,9.43  
1993-06-28,40.50,40.50,38.75,40.13,12645600,9.70  
1993-06-25,40.38,40.75,39.50,40.00,9198000,9.67  
1993-06-24,40.50,41.75,40.00,41.75,7980000,10.10  
1993-06-23,41.75,41.75,40.00,40.50,6462400,9.79  
1993-06-22,40.88,42.00,39.75,41.38,12021200,10.01  
1993-06-21,40.50,40.50,39.50,39.63,9776800,9.58  
1993-06-18,41.63,42.13,39.75,41.00,11138800,9.91  
1993-06-17,42.50,42.50,40.50,41.25,14635600,9.97  
1993-06-16,42.25,43.25,41.50,42.25,12615600,10.22  
1993-06-15,45.25,45.25,41.88,42.00,16018000,10.16  
1993-06-14,44.00,44.75,43.50,44.63,8927600,10.79  
1993-06-11,45.00,45.25,43.38,43.75,8662400,10.58  
1993-06-10,43.50,44.75,42.75,44.50,19783600,10.76  
1993-06-09,45.00,45.63,44.00,44.25,42090000,10.70  
1993-06-08,48.75,50.00,48.00,49.50,22194400,11.97  
1993-06-07,54.50,54.75,50.38,50.75,17239200,12.27  
1993-06-04,55.75,56.25,54.50,54.88,7649200,13.27  
1993-06-03,57.00,57.25,56.00,56.38,5603200,13.63  
1993-06-02,56.75,58.25,56.00,57.00,7160000,13.78  
1993-06-01,56.50,57.75,56.50,57.00,4837600,13.78  
1993-05-28,57.00,57.50,56.25,56.63,6575200,13.69  
1993-05-27,57.75,58.50,57.25,57.50,7049200,13.87  
1993-05-26,56.00,57.75,55.38,57.75,4353600,13.94  
1993-05-25,56.75,57.50,55.75,56.38,6462400,13.60  
1993-05-24,56.75,58.75,56.75,57.63,5373200,13.91  
1993-05-21,58.75,59.13,56.75,57.50,5300000,13.87  
1993-05-20,57.25,59.00,57.25,58.75,10385200,14.18



1993-05-19,54.75,57.50,54.50,57.25,6176400,13.81  
1993-05-18,55.50,56.25,55.00,55.50,5860000,13.39  
1993-05-17,55.50,56.00,55.00,55.75,2491200,13.45  
1993-05-14,55.25,56.00,55.00,55.50,4212000,13.39  
1993-05-13,53.50,55.75,53.50,55.50,12940800,13.39  
1993-05-12,54.25,54.75,53.00,53.25,3779200,12.85  
1993-05-11,55.00,55.25,54.00,54.50,5665600,13.15  
1993-05-10,55.00,55.88,55.00,55.00,4929200,13.27  
1993-05-07,53.50,54.75,53.50,54.75,2927600,13.21  
1993-05-06,54.50,54.75,53.50,53.75,2536800,12.97  
1993-05-05,53.00,55.50,53.00,54.50,9059200,13.15  
1993-05-04,52.25,54.25,52.00,53.38,6112400,12.88  
1993-05-03,51.25,52.00,51.00,51.88,2332400,12.52  
1993-04-30,50.75,52.50,50.75,51.25,4730000,12.37  
1993-04-29,51.50,51.75,50.13,50.75,2958000,12.25  
1993-04-28,49.75,52.00,49.75,51.38,5846800,12.40  
1993-04-27,48.75,50.25,48.75,50.25,4648800,12.13  
1993-04-26,49.25,49.75,48.50,49.00,3689200,11.82  
1993-04-23,49.75,50.25,48.75,49.25,4808000,11.88  
1993-04-22,49.25,50.50,49.00,50.00,5648800,12.06  
1993-04-21,50.25,50.75,49.25,49.63,7337600,11.98  
1993-04-20,48.75,50.25,48.25,50.00,8580800,12.06  
1993-04-19,48.50,49.50,48.25,48.50,8148000,11.70  
1993-04-16,48.25,48.75,47.38,48.13,24533200,11.61  
1993-04-15,48.25,48.25,46.75,47.25,7816800,11.40  
1993-04-14,48.25,48.75,47.63,48.75,6092400,11.76  
1993-04-13,50.50,51.25,48.25,48.50,5893600,11.70  
1993-04-12,49.50,51.00,49.50,50.00,3324800,12.06  
1993-04-08,50.00,50.50,49.00,49.75,5857600,12.00  
1993-04-07,49.00,50.75,48.50,50.50,5825200,12.19  
1993-04-06,50.00,50.25,48.75,48.75,6020800,11.76  
1993-04-05,50.00,50.50,49.50,50.00,5332000,12.06  
1993-04-02,50.50,51.25,49.50,50.13,9077600,12.10  
1993-04-01,51.25,52.00,51.00,51.75,3878000,12.49  
1993-03-31,52.50,52.75,51.25,51.50,7968800,12.43  
1993-03-30,51.13,52.25,50.25,52.25,9447600,12.61  
1993-03-29,52.25,52.50,50.75,51.00,9362000,12.31  
1993-03-26,54.75,54.75,52.50,53.25,5431200,12.85  
1993-03-25,53.75,54.75,53.50,54.75,6125200,13.21  
1993-03-24,52.75,54.25,52.50,53.75,5126400,12.97  
1993-03-23,53.25,54.00,52.63,52.75,3674400,12.73  
1993-03-22,53.50,53.88,52.75,53.25,5911200,12.85  
1993-03-19,55.00,55.25,53.50,53.75,5516800,12.97  
1993-03-18,55.00,55.63,54.50,54.50,3810800,13.15  
1993-03-17,56.50,57.00,55.00,55.13,6301200,13.30  
1993-03-16,57.25,57.75,56.50,56.50,3626800,13.63  
1993-03-15,56.00,57.25,55.38,57.00,4868800,13.75  
1993-03-12,56.75,56.75,55.50,56.25,4527600,13.57

1993-03-11,57.00,57.25,56.25,56.88,5167600,13.73  
1993-03-10,56.75,57.25,56.00,56.75,4738800,13.69  
1993-03-09,56.50,57.50,56.50,56.75,5535200,13.69  
1993-03-08,55.00,56.75,55.00,56.50,6322400,13.63  
1993-03-05,54.75,55.75,54.75,55.00,4001200,13.27  
1993-03-04,54.50,55.25,53.50,55.00,6730000,13.27  
1993-03-03,54.00,55.00,53.25,54.63,7261200,13.18  
1993-03-02,53.00,54.50,53.00,54.25,5294400,13.09  
1993-03-01,53.00,53.50,52.75,53.25,4272400,12.85  
1993-02-26,54.25,54.25,52.25,53.00,10538000,12.79  
1993-02-25,53.25,54.75,53.25,54.75,5979200,13.21  
1993-02-24,52.13,53.88,52.13,53.63,10253600,12.94  
1993-02-23,55.00,55.25,54.00,54.25,6937600,13.09  
1993-02-22,55.00,56.00,54.75,55.13,3531200,13.30  
1993-02-19,55.25,55.50,54.75,55.00,6366800,13.27  
1993-02-18,55.00,55.25,53.50,55.00,10006800,13.27  
1993-02-17,53.25,54.00,52.00,53.88,8932400,13.00  
1993-02-16,53.50,53.50,51.50,53.00,14563200,12.79  
1993-02-12,55.00,55.50,53.75,53.88,9855600,13.00  
1993-02-11,55.75,56.25,55.00,55.13,6015200,13.27  
1993-02-10,57.00,57.25,55.00,55.75,9593600,13.42  
1993-02-09,57.00,57.38,56.50,56.88,8525600,13.70  
1993-02-08,57.00,57.50,55.50,56.50,10060000,13.60  
1993-02-05,59.25,59.50,56.25,57.25,13134400,13.78  
1993-02-04,60.00,60.25,59.00,59.50,7453200,14.33  
1993-02-03,61.00,61.00,58.50,60.00,9455200,14.45  
1993-02-02,60.75,61.50,60.25,60.25,6530000,14.51  
1993-02-01,59.25,61.25,59.25,61.25,8608800,14.75  
1993-01-29,60.25,61.25,59.00,59.50,9516800,14.33  
1993-01-28,60.00,60.25,59.25,59.88,6580000,14.42  
1993-01-27,61.00,61.75,58.75,60.25,8101200,14.51  
1993-01-26,60.50,62.00,60.50,60.75,10201200,14.63  
1993-01-25,59.25,60.50,59.25,60.00,7237600,14.45  
1993-01-22,60.25,60.25,59.00,59.50,5252400,14.33  
1993-01-21,59.75,60.25,58.75,60.00,6601200,14.45  
1993-01-20,59.75,60.25,59.50,60.00,5685600,14.45  
1993-01-19,59.75,60.50,59.25,59.75,9802400,14.39  
1993-01-18,59.50,60.00,58.00,59.50,11935600,14.33  
1993-01-15,61.00,62.25,60.00,60.25,32257600,14.51  
1993-01-14,64.00,65.25,63.75,65.00,13145200,15.65  
1993-01-13,61.50,64.00,61.25,63.50,7135600,15.29  
1993-01-12,62.75,63.75,61.50,61.50,12364400,14.81  
1993-01-11,62.00,64.37,61.75,64.12,9785200,15.44  
1993-01-08,60.75,63.00,59.75,62.25,11474400,14.99  
1993-01-07,61.75,62.50,60.63,61.00,9741200,14.69  
1993-01-06,60.75,62.00,60.50,61.75,10055600,14.87  
1993-01-05,58.00,59.25,57.25,59.25,6658800,14.27  
1993-01-04,59.50,60.00,57.75,58.25,4618800,14.03

1992-12-31,58.75,60.00,58.75,59.75,3302000,14.39  
1992-12-30,59.75,59.75,58.75,58.75,3610800,14.15  
1992-12-29,59.50,60.75,59.50,59.63,4171200,14.36  
1992-12-28,59.25,59.75,59.25,59.50,2536400,14.33  
1992-12-24,60.00,60.00,59.00,59.00,1642400,14.21  
1992-12-23,60.25,60.50,59.25,59.75,4018800,14.39  
1992-12-22,59.75,61.25,59.75,60.63,10009200,14.60  
1992-12-21,58.25,60.00,58.00,59.63,9159200,14.36  
1992-12-18,57.50,59.25,57.25,58.25,8414400,14.03  
1992-12-17,55.25,57.50,55.25,56.88,8370800,13.70  
1992-12-16,56.25,57.00,54.50,55.00,8085200,13.24  
1992-12-15,56.75,57.00,55.50,56.38,6541200,13.57  
1992-12-14,57.50,57.75,56.75,57.25,3962000,13.78  
1992-12-11,57.25,58.25,57.25,57.50,4299200,13.84  
1992-12-10,57.25,57.63,56.50,57.25,5010800,13.78  
1992-12-09,57.75,58.00,57.25,57.63,5700800,13.88  
1992-12-08,57.75,58.75,57.75,58.13,7035600,14.00  
1992-12-07,56.75,57.75,56.75,57.75,5168000,13.90  
1992-12-04,57.25,57.50,56.50,56.88,3432400,13.70  
1992-12-03,56.50,57.63,56.13,57.50,6710800,13.84  
1992-12-02,58.25,58.50,57.00,57.25,3498800,13.78  
1992-12-01,57.25,59.00,56.75,58.25,4652400,14.03  
1992-11-30,56.25,57.50,55.63,57.50,5739200,13.84  
1992-11-27,56.50,57.25,56.25,56.50,1688800,13.57  
1992-11-25,57.00,57.25,56.00,56.50,4208000,13.57  
1992-11-24,57.00,57.50,56.50,57.50,5601200,13.82  
1992-11-23,56.50,57.00,56.25,56.75,5462400,13.63  
1992-11-20,58.50,58.75,57.00,57.50,5572000,13.82  
1992-11-19,57.75,59.50,57.75,58.25,8608000,14.00  
1992-11-18,56.00,58.25,55.50,57.75,10889200,13.88  
1992-11-17,57.25,57.50,54.88,55.25,6045200,13.27  
1992-11-16,56.25,57.75,56.00,57.38,2419200,13.79  
1992-11-13,57.00,57.25,56.00,56.25,3042000,13.51  
1992-11-12,57.00,57.50,56.38,56.88,3844400,13.67  
1992-11-11,56.50,58.25,56.25,56.75,5023600,13.63  
1992-11-10,55.00,56.50,54.75,56.25,4368000,13.51  
1992-11-09,56.00,56.00,54.75,55.25,4052000,13.27  
1992-11-06,54.75,56.50,54.75,55.75,9443200,13.39  
1992-11-05,52.50,55.00,52.50,55.00,10647600,13.21  
1992-11-04,52.00,52.75,52.00,52.50,5086800,12.61  
1992-11-03,52.50,52.50,51.50,52.00,4042000,12.49  
1992-11-02,52.50,52.75,51.75,52.25,6094400,12.55  
1992-10-30,53.50,53.50,52.00,52.50,4657600,12.61  
1992-10-29,52.25,54.00,51.50,53.25,7661200,12.79  
1992-10-28,51.25,52.75,50.75,52.25,7033200,12.55  
1992-10-27,51.50,52.50,51.00,51.50,7575600,12.37  
1992-10-26,48.75,51.50,48.50,51.50,8972000,12.37  
1992-10-23,49.25,49.50,48.25,48.75,3279200,11.71

1992-10-22,48.50,49.25,48.25,48.75,3026400,11.71  
1992-10-21,49.25,49.50,48.00,48.50,4080800,11.65  
1992-10-20,49.00,50.00,48.50,49.13,10269200,11.80  
1992-10-19,49.00,49.25,48.50,49.00,7002400,11.77  
1992-10-16,46.75,49.50,46.50,49.00,16142000,11.77  
1992-10-15,45.75,46.00,45.25,45.50,2701200,10.93  
1992-10-14,45.25,46.25,45.00,46.00,3429200,11.05  
1992-10-13,44.75,46.00,44.00,45.38,5265600,10.90  
1992-10-12,43.25,44.25,43.25,44.00,2580000,10.57  
1992-10-09,43.50,44.00,43.00,43.38,2108000,10.42  
1992-10-08,44.00,44.25,43.00,43.50,4543200,10.45  
1992-10-07,45.00,45.25,43.50,43.75,4050800,10.51  
1992-10-06,43.75,45.00,42.75,44.75,4058000,10.75  
1992-10-05,43.25,43.75,41.50,43.50,9475600,10.45  
1992-10-02,44.50,44.75,43.00,43.75,4063600,10.51  
1992-10-01,44.75,45.13,44.25,44.25,4396400,10.63  
1992-09-30,45.00,45.50,44.50,45.13,3580800,10.84  
1992-09-29,44.50,45.50,44.00,44.88,5626400,10.78  
1992-09-28,45.00,45.00,43.75,44.75,5351200,10.75  
1992-09-25,46.25,46.50,45.25,45.50,4926400,10.93  
1992-09-24,47.25,47.75,46.25,46.25,4492000,11.11  
1992-09-23,46.00,47.50,45.50,47.50,4443200,11.41  
1992-09-22,46.75,46.75,45.25,45.75,3996800,10.99  
1992-09-21,46.75,47.75,46.25,46.50,3204400,11.17  
1992-09-18,45.75,46.88,45.25,46.50,4133600,11.17  
1992-09-17,47.25,47.25,45.38,46.00,6180000,11.05  
1992-09-16,47.75,48.25,46.50,47.00,6395600,11.29  
1992-09-15,49.25,49.25,47.75,48.25,7806800,11.59  
1992-09-14,49.00,50.00,48.50,49.50,7682400,11.89  
1992-09-11,49.00,49.25,47.50,47.63,6438000,11.44  
1992-09-10,48.00,49.50,47.50,49.25,8165600,11.83  
1992-09-09,48.00,49.25,47.75,49.00,5622400,11.77  
1992-09-08,46.75,48.00,46.50,47.75,2511200,11.47  
1992-09-04,48.25,48.25,46.75,47.25,2268800,11.35  
1992-09-03,49.00,49.25,47.75,47.75,7570000,11.47  
1992-09-02,46.50,48.75,46.50,48.50,6794400,11.65  
1992-09-01,46.25,46.50,45.75,46.50,2172000,11.17  
1992-08-31,45.00,46.25,44.75,46.00,4328800,11.05  
1992-08-28,44.25,45.25,44.00,45.00,2202400,10.81  
1992-08-27,44.75,45.13,44.25,44.50,2974800,10.69  
1992-08-26,44.25,44.50,43.25,44.25,4325600,10.63  
1992-08-25,43.25,44.50,43.25,44.38,4731200,10.66  
1992-08-24,44.25,44.75,43.25,43.25,5454400,10.39  
1992-08-21,44.75,45.25,44.00,44.63,3926400,10.72  
1992-08-20,44.75,45.00,44.25,44.75,3894800,10.75  
1992-08-19,44.63,45.25,44.50,44.50,6096800,10.69  
1992-08-18,44.50,45.25,44.50,44.75,4017600,10.75  
1992-08-17,44.25,44.75,43.75,44.75,4617600,10.75

1992-08-14,45.00,45.25,44.50,44.75,4872400,10.72  
1992-08-13,44.50,45.50,44.25,44.75,6122000,10.72  
1992-08-12,43.75,44.25,43.25,44.13,4343600,10.57  
1992-08-11,44.50,44.50,43.00,43.50,4339200,10.42  
1992-08-10,43.25,44.50,43.00,44.13,3280800,10.57  
1992-08-07,42.00,43.75,41.50,43.38,7842400,10.39  
1992-08-06,44.25,44.50,42.75,44.00,9220800,10.54  
1992-08-05,45.50,45.50,44.50,44.75,4981200,10.72  
1992-08-04,45.00,45.75,44.75,45.50,4295600,10.90  
1992-08-03,46.75,47.25,45.50,45.75,2452400,10.96  
1992-07-31,47.25,47.50,46.75,46.75,3262000,11.20  
1992-07-30,47.25,47.50,46.75,47.25,4927600,11.32  
1992-07-29,46.63,47.75,46.50,47.25,8976400,11.32  
1992-07-28,45.50,46.50,45.25,46.50,4813600,11.14  
1992-07-27,45.75,46.50,45.25,45.25,88800,10.84  
1992-07-24,44.50,46.25,44.00,45.88,4832000,10.99  
1992-07-23,44.50,44.75,43.75,44.75,6128800,10.72  
1992-07-22,45.25,45.50,44.00,44.25,5798800,10.60  
1992-07-21,45.50,46.25,45.00,45.75,4730800,10.96  
1992-07-20,44.75,45.25,44.00,44.75,6873600,10.72  
1992-07-17,45.00,46.00,44.63,45.00,15135600,10.78  
1992-07-16,47.75,49.00,47.25,48.75,5011200,11.68  
1992-07-15,47.50,49.00,47.25,48.00,6248000,11.50  
1992-07-14,47.00,48.00,47.00,47.50,4510800,11.38  
1992-07-13,45.75,47.13,45.25,47.00,4486800,11.26  
1992-07-10,46.00,46.25,44.88,45.75,5144400,10.96  
1992-07-09,46.00,46.50,45.75,45.88,5922000,10.99  
1992-07-08,44.00,45.75,44.00,45.75,7020000,10.96  
1992-07-07,46.25,46.25,43.50,44.25,7416400,10.60  
1992-07-06,46.50,46.75,45.50,46.25,4378000,11.08  
1992-07-02,49.00,49.00,45.75,46.25,9169200,11.08  
1992-07-01,48.00,49.50,47.75,49.00,5129200,11.74  
1992-06-30,46.75,48.25,46.50,48.00,6919200,11.50  
1992-06-29,45.75,47.13,45.25,46.75,6735200,11.20  
1992-06-26,45.75,46.00,44.50,45.25,3953600,10.84  
1992-06-25,46.50,46.50,45.25,45.63,5745200,10.93  
1992-06-24,45.50,46.00,45.25,46.00,7548000,11.02  
1992-06-23,45.00,45.50,44.50,45.25,11130800,10.84  
1992-06-22,44.00,44.75,42.75,44.25,13930000,10.60  
1992-06-19,46.00,46.00,43.75,44.75,15280000,10.72  
1992-06-18,47.50,49.00,44.75,45.25,15495600,10.84  
1992-06-17,49.00,49.25,47.00,47.50,10880800,11.38  
1992-06-16,51.75,52.00,48.75,49.25,13053200,11.80  
1992-06-15,54.00,54.00,52.50,52.63,6777600,12.61  
1992-06-12,54.50,55.00,54.25,54.63,3450800,13.09  
1992-06-11,53.75,54.25,53.50,53.88,5028800,12.91  
1992-06-10,54.00,54.75,53.50,53.75,4522400,12.88  
1992-06-09,54.25,54.25,53.50,54.00,3626800,12.94

1992-06-08,55.00,55.00,54.00,54.25,3730000,13.00  
1992-06-05,54.75,55.25,54.25,54.88,4040800,13.15  
1992-06-04,54.25,54.75,53.50,54.50,6453200,13.06  
1992-06-03,56.50,56.50,54.00,54.13,10743200,12.97  
1992-06-02,57.50,57.50,56.25,56.50,5560000,13.54  
1992-06-01,57.25,59.50,56.00,57.50,8869200,13.78  
1992-05-29,59.75,60.63,59.50,59.75,6369200,14.29  
1992-05-28,60.00,60.25,59.00,59.50,4558000,14.23  
1992-05-27,59.25,60.25,59.00,60.25,5516400,14.41  
1992-05-26,59.50,59.75,58.75,59.25,3423200,14.17  
1992-05-22,59.00,59.75,59.00,59.50,1670800,14.23  
1992-05-21,60.25,60.25,58.75,59.13,4938800,14.14  
1992-05-20,59.75,60.25,59.25,60.00,6200800,14.35  
1992-05-19,60.75,60.75,59.00,59.38,4715600,14.20  
1992-05-18,61.50,61.50,60.00,60.38,4616400,14.44  
1992-05-15,61.00,61.25,60.50,60.63,4339200,14.50  
1992-05-14,62.75,63.00,60.25,61.38,5606800,14.68  
1992-05-13,62.50,63.25,62.25,62.75,3482000,15.01  
1992-05-12,62.25,63.00,61.75,62.25,2769200,14.89  
1992-05-11,62.00,62.75,61.50,62.25,3250000,14.89  
1992-05-08,61.50,62.88,61.00,62.00,7105600,14.83  
1992-05-07,61.50,62.25,60.50,60.75,6175600,14.53  
1992-05-06,60.75,62.13,60.50,61.75,6377600,14.77  
1992-05-05,60.50,60.63,59.50,60.50,6449200,14.47  
1992-05-04,59.50,61.25,59.25,60.50,4402000,14.47  
1992-05-01,60.00,60.75,58.25,59.25,4821200,14.17  
1992-04-30,57.25,60.25,56.50,60.13,9303600,14.38  
1992-04-29,54.25,57.00,54.25,57.00,7116800,13.63  
1992-04-28,55.25,55.75,53.00,54.25,6229200,12.97  
1992-04-27,56.00,56.25,55.00,55.75,5014800,13.33  
1992-04-24,57.00,58.25,56.00,56.50,3526800,13.51  
1992-04-23,57.50,58.25,56.00,57.00,6534400,13.63  
1992-04-22,56.25,58.00,56.25,57.63,6129200,13.78  
1992-04-21,57.00,57.25,56.00,56.25,6442400,13.45  
1992-04-20,59.00,59.00,56.00,56.75,7380800,13.57  
1992-04-16,60.25,60.75,58.50,59.00,9260800,14.11  
1992-04-15,58.00,60.88,57.50,60.50,7764400,14.47  
1992-04-14,57.75,59.25,57.25,58.75,5178000,14.05  
1992-04-13,55.50,56.75,55.25,56.50,4402000,13.51  
1992-04-10,57.25,57.50,55.00,55.50,9803600,13.27  
1992-04-09,56.00,58.25,55.25,57.25,6874400,13.69  
1992-04-08,57.00,57.00,54.75,55.88,13123600,13.36  
1992-04-07,61.00,61.25,57.25,57.25,8234400,13.69  
1992-04-06,59.00,61.00,59.00,60.75,3643600,14.53  
1992-04-03,58.75,59.25,58.50,59.00,4181200,14.11  
1992-04-02,59.00,59.50,58.38,58.75,4798800,14.05  
1992-04-01,57.25,59.25,57.25,59.00,5714400,14.11  
1992-03-31,58.25,59.75,58.00,58.25,7613200,13.93

1992-03-30,61.25,61.25,57.75,58.13,12124400,13.90  
1992-03-27,63.88,64.00,60.50,61.00,9452000,14.59  
1992-03-26,64.75,65.25,63.75,64.00,4412400,15.30  
1992-03-25,65.00,65.00,64.25,64.50,4353200,15.42  
1992-03-24,63.50,65.00,63.25,65.00,7501200,15.54  
1992-03-23,63.00,63.75,63.00,63.00,1804400,15.07  
1992-03-20,63.00,63.25,63.00,63.25,1942400,15.13  
1992-03-19,63.75,63.75,62.75,63.00,4251200,15.07  
1992-03-18,63.25,64.00,63.00,63.75,2902000,15.25  
1992-03-17,63.50,63.75,62.75,62.88,3061200,15.04  
1992-03-16,62.75,63.50,61.75,63.38,2016400,15.16  
1992-03-13,63.25,63.75,62.00,63.13,2843600,15.10  
1992-03-12,63.25,63.75,61.50,62.75,5472400,15.01  
1992-03-11,63.75,64.25,63.00,63.25,4714400,15.13  
1992-03-10,64.00,64.75,63.75,63.75,4394400,15.25  
1992-03-09,63.75,64.25,63.50,63.75,3896800,15.25  
1992-03-06,63.50,64.00,63.00,64.00,4816400,15.30  
1992-03-05,64.50,65.50,63.00,63.50,8462400,15.19  
1992-03-04,66.25,66.75,64.75,65.00,4120800,15.54  
1992-03-03,67.75,68.00,66.25,66.37,3560000,15.87  
1992-03-02,67.75,68.50,67.25,67.25,3203200,16.08  
1992-02-28,68.50,69.00,67.00,67.50,3244400,16.14  
1992-02-27,70.00,70.00,68.00,68.50,4364800,16.38  
1992-02-26,68.25,70.00,68.25,69.87,8193600,16.71  
1992-02-25,66.25,68.50,65.25,68.50,8134400,16.38  
1992-02-24,66.25,66.50,65.75,66.12,6122400,15.81  
1992-02-21,64.75,65.50,64.50,65.00,5421200,15.54  
1992-02-20,62.50,64.75,62.25,64.62,4692400,15.45  
1992-02-19,62.75,63.00,61.75,62.00,3426400,14.83  
1992-02-18,64.25,64.50,62.75,62.75,2442000,15.01  
1992-02-14,63.75,64.25,63.25,64.12,2610800,15.33  
1992-02-13,65.25,65.25,63.75,64.25,2734400,15.34  
1992-02-12,63.75,65.50,63.00,65.25,4931200,15.57  
1992-02-11,63.00,63.75,62.25,62.88,4378800,15.01  
1992-02-10,64.00,64.25,63.00,63.13,3091200,15.07  
1992-02-07,64.25,64.75,62.75,64.00,5285600,15.28  
1992-02-06,65.75,66.00,64.00,64.12,3330000,15.30  
1992-02-05,66.25,66.75,65.12,66.12,5772400,15.78  
1992-02-04,65.75,66.25,65.00,65.75,6896400,15.69  
1992-02-03,64.75,66.25,64.50,65.75,5652000,15.69  
1992-01-31,64.00,65.25,63.50,64.75,5164400,15.46  
1992-01-30,63.50,63.75,62.75,63.75,3128800,15.22  
1992-01-29,64.75,65.75,63.25,63.25,5164400,15.10  
1992-01-28,64.75,65.37,63.00,65.25,6206800,15.57  
1992-01-27,64.75,65.25,64.25,64.50,2992000,15.40  
1992-01-24,64.50,65.75,64.00,64.62,6356400,15.42  
1992-01-23,64.25,64.75,63.00,64.50,4953200,15.40  
1992-01-22,61.50,63.75,61.25,63.50,6560000,15.16

1992-01-21,64.25,64.25,61.00,61.13,6938000,14.59  
1992-01-20,64.50,65.25,64.00,64.00,7492400,15.28  
1992-01-17,67.75,69.00,64.75,64.75,30308800,15.46  
1992-01-16,63.75,64.25,62.50,62.75,10485200,14.98  
1992-01-15,64.50,65.00,63.00,63.50,11652400,15.16  
1992-01-14,62.25,64.75,62.25,64.50,9789200,15.40  
1992-01-13,62.25,62.75,61.50,62.00,3858800,14.80  
1992-01-10,61.50,62.50,61.00,62.25,7012400,14.86  
1992-01-09,60.50,62.25,60.25,62.25,7450800,14.86  
1992-01-08,58.50,61.25,58.50,60.50,8330800,14.44  
1992-01-07,57.50,59.50,57.50,59.13,5059200,14.11  
1992-01-06,58.75,59.00,57.75,58.00,4080000,13.84  
1992-01-03,60.00,60.25,58.25,59.00,6814400,14.08  
1992-01-02,55.75,59.75,55.50,59.50,8357600,14.20  
1991-12-31,57.38,58.00,56.00,56.38,4802000,13.46  
1991-12-30,55.00,57.25,55.00,56.75,6580800,13.55  
1991-12-27,54.75,55.75,54.50,55.00,6008000,13.13  
1991-12-26,52.75,55.00,52.25,54.88,4805600,13.10  
1991-12-24,52.00,53.75,51.75,52.25,6742400,12.47  
1991-12-23,50.50,51.75,50.00,51.50,3686800,12.29  
1991-12-20,51.25,51.50,50.25,50.25,4588000,11.99  
1991-12-19,51.25,51.75,50.75,50.75,4140800,12.11  
1991-12-18,50.25,52.00,50.00,51.75,6678000,12.35  
1991-12-17,50.50,51.00,50.25,50.50,3502400,12.05  
1991-12-16,50.38,50.75,50.00,50.50,2777600,12.05  
1991-12-13,49.75,50.75,49.75,50.38,3418000,12.03  
1991-12-12,49.38,49.75,49.00,49.38,3297600,11.79  
1991-12-11,49.25,49.75,48.50,49.00,3031200,11.70  
1991-12-10,49.00,49.50,48.50,49.13,4390000,11.73  
1991-12-09,49.00,50.00,48.75,49.13,3502000,11.73  
1991-12-06,49.50,49.75,48.50,48.75,7055200,11.64  
1991-12-05,50.50,51.00,49.25,50.00,3555600,11.93  
1991-12-04,50.75,50.75,50.00,50.50,2897600,12.05  
1991-12-03,52.00,52.00,50.25,50.50,3692400,12.05  
1991-12-02,50.75,52.00,50.00,51.75,4250000,12.35  
1991-11-29,50.50,51.50,50.50,50.75,1227600,12.11  
1991-11-27,51.25,51.50,50.50,51.00,2268800,12.17  
1991-11-26,51.50,52.00,50.00,51.50,4982000,12.29  
1991-11-25,51.00,52.25,51.00,51.25,2802000,12.23  
1991-11-22,51.00,51.75,50.25,51.25,3502400,12.23  
1991-11-21,50.50,51.75,50.50,51.00,3823200,12.17  
1991-11-20,51.25,52.00,50.25,50.50,6005600,12.05  
1991-11-19,51.75,51.75,49.75,51.25,10216400,12.23  
1991-11-18,50.00,52.50,50.00,52.13,8530000,12.44  
1991-11-15,54.50,54.75,49.75,50.00,9186400,11.91  
1991-11-14,54.25,55.25,54.00,54.75,6733600,13.04  
1991-11-13,54.00,54.50,53.50,54.13,6640000,12.89  
1991-11-12,54.25,54.75,53.75,54.50,5972000,12.98



1991-11-11,53.50,54.50,53.25,53.75,5896800,12.80  
1991-11-08,51.25,53.75,51.00,53.25,13435200,12.68  
1991-11-07,48.50,50.50,48.25,49.75,10618800,11.85  
1991-11-06,49.00,49.25,47.50,48.00,8466400,11.43  
1991-11-05,49.75,50.50,48.75,48.75,7711200,11.61  
1991-11-04,50.75,50.75,48.50,49.75,6983200,11.85  
1991-11-01,51.25,52.00,50.50,51.00,7203600,12.14  
1991-10-31,50.75,51.75,50.00,51.50,8300800,12.26  
1991-10-30,52.00,52.75,49.50,49.75,5302400,11.85  
1991-10-29,51.50,52.00,50.75,51.75,3624400,12.32  
1991-10-28,51.50,51.75,50.75,51.50,2792400,12.26  
1991-10-25,51.75,52.25,50.75,51.25,3832000,12.20  
1991-10-24,53.00,53.25,51.50,52.13,6372400,12.41  
1991-10-23,55.00,55.25,52.75,53.13,6046400,12.65  
1991-10-22,55.50,56.25,54.50,54.50,7456400,12.98  
1991-10-21,55.25,55.88,54.25,54.75,4172000,13.04  
1991-10-18,55.13,55.50,54.50,55.00,15964400,13.10  
1991-10-17,53.00,53.25,51.50,52.38,5423200,12.47  
1991-10-16,52.50,54.00,52.25,53.50,7182000,12.74  
1991-10-15,50.50,52.50,50.00,52.50,10300800,12.50  
1991-10-14,49.00,50.25,48.75,49.88,4015600,11.88  
1991-10-11,48.13,48.88,46.50,48.50,4292000,11.55  
1991-10-10,48.75,49.00,46.75,47.75,5623200,11.37  
1991-10-09,48.25,48.75,47.75,48.00,4752400,11.43  
1991-10-08,48.13,48.50,46.50,48.25,6170000,11.49  
1991-10-07,48.00,48.75,47.50,48.13,2328000,11.46  
1991-10-04,48.00,48.75,47.50,48.25,2854400,11.49  
1991-10-03,50.00,50.00,47.50,47.75,6478000,11.37  
1991-10-02,51.75,51.75,49.50,49.75,643600,11.85  
1991-10-01,49.25,51.25,49.00,50.75,4698800,12.08  
1991-09-30,49.25,49.75,49.00,49.50,2266800,11.79  
1991-09-27,50.00,50.75,48.75,49.00,2245200,11.67  
1991-09-26,50.25,50.25,49.00,50.00,2556800,11.91  
1991-09-25,50.25,50.50,49.25,50.50,1959200,12.02  
1991-09-24,49.50,50.38,48.25,50.25,3805600,11.97  
1991-09-23,50.00,50.75,49.25,49.50,3136800,11.79  
1991-09-20,49.75,51.00,49.50,50.63,6742000,12.06  
1991-09-19,50.25,50.50,49.50,49.75,6374400,11.85  
1991-09-18,48.75,50.50,48.50,50.13,4342000,11.94  
1991-09-17,47.00,49.00,46.75,49.00,4856400,11.67  
1991-09-16,49.25,49.25,46.50,47.25,7365600,11.25  
1991-09-13,50.00,50.25,48.50,48.63,5974400,11.58  
1991-09-12,51.25,51.25,49.75,50.63,4267600,12.06  
1991-09-11,50.75,51.00,49.50,50.50,6378000,12.02  
1991-09-10,52.75,53.38,49.75,50.13,6535600,11.94  
1991-09-09,51.75,53.50,51.50,53.25,4538000,12.68  
1991-09-06,51.00,51.75,50.50,51.50,2848800,12.26  
1991-09-05,51.50,51.75,50.75,51.00,2793600,12.14

1991-09-04,52.75,52.75,51.38,51.50,4299200,12.26  
1991-09-03,52.75,53.25,52.00,52.50,2443200,12.50  
1991-08-30,53.00,53.25,52.25,53.00,2363200,12.62  
1991-08-29,53.25,53.88,52.50,53.00,4053200,12.62  
1991-08-28,54.00,54.25,53.13,53.25,3843600,12.68  
1991-08-27,53.00,54.00,52.75,54.00,3597600,12.86  
1991-08-26,53.00,53.50,52.50,53.00,3644400,12.62  
1991-08-23,54.00,55.50,52.75,53.00,8601200,12.62  
1991-08-22,54.00,54.75,53.75,54.25,5936400,12.92  
1991-08-21,52.50,54.13,52.00,53.75,7987600,12.80  
1991-08-20,51.50,51.75,50.50,51.00,7123600,12.14  
1991-08-19,49.50,51.63,48.50,50.50,11538000,12.02  
1991-08-16,52.75,54.25,52.25,53.25,5689200,12.65  
1991-08-15,55.00,55.00,53.00,53.25,5219200,12.65  
1991-08-14,54.75,55.00,53.88,54.88,7173200,13.04  
1991-08-13,52.00,54.00,52.00,53.50,10255200,12.71  
1991-08-12,50.75,52.25,50.50,51.75,5096400,12.29  
1991-08-09,50.50,51.00,49.75,50.75,5533600,12.06  
1991-08-08,50.75,51.75,50.00,50.50,6769200,12.00  
1991-08-07,49.50,51.00,49.38,50.38,7578800,11.97  
1991-08-06,48.75,50.25,47.75,49.50,7890800,11.76  
1991-08-05,49.75,49.75,48.25,48.50,3620800,11.52  
1991-08-02,49.75,50.25,49.00,50.00,9767600,11.88  
1991-08-01,46.00,49.25,45.75,49.13,16023600,11.67  
1991-07-31,46.50,46.88,45.00,46.25,3689200,10.99  
1991-07-30,45.50,46.75,45.50,46.50,3281200,11.05  
1991-07-29,45.25,45.50,44.50,45.50,1916800,10.81  
1991-07-26,45.75,45.75,44.75,44.88,2657600,10.66  
1991-07-25,45.25,45.75,45.00,45.25,2366800,10.75  
1991-07-24,45.25,45.75,44.50,45.00,4703200,10.69  
1991-07-23,46.25,46.50,44.50,45.00,4770000,10.69  
1991-07-22,45.75,46.25,45.50,46.00,3882000,10.93  
1991-07-19,45.25,46.25,45.00,46.00,4601200,10.93  
1991-07-18,44.00,45.13,43.00,44.88,14240000,10.66  
1991-07-17,43.50,44.50,42.25,42.50,7474400,10.10  
1991-07-16,45.50,45.75,43.50,43.75,7966400,10.39  
1991-07-15,46.75,46.75,45.50,45.50,4932400,10.81  
1991-07-12,47.25,47.25,46.25,46.75,4753200,11.11  
1991-07-11,47.00,47.25,46.00,46.75,5217600,11.11  
1991-07-10,47.50,48.25,46.75,47.25,5610000,11.23  
1991-07-09,47.25,48.25,46.50,46.88,8091200,11.14  
1991-07-08,45.25,47.25,45.00,46.75,10971200,11.11  
1991-07-05,43.00,46.00,42.75,45.63,11842000,10.84  
1991-07-03,42.25,43.50,41.75,43.13,11087600,10.25  
1991-07-02,42.25,42.75,41.75,42.25,4296800,10.04  
1991-07-01,42.25,43.00,41.75,42.50,6979200,10.10  
1991-06-28,42.25,42.50,40.25,41.50,8102400,9.86  
1991-06-27,42.50,42.75,41.75,42.50,5400000,10.10

1991-06-26,42.75,43.50,42.25,43.00,8958000,10.22  
1991-06-25,42.00,43.00,41.75,42.38,8151200,10.07  
1991-06-24,41.75,42.25,41.25,41.75,7443600,9.92  
1991-06-21,42.00,42.50,41.75,42.00,7378800,9.98  
1991-06-20,41.25,42.00,40.75,42.00,5158000,9.98  
1991-06-19,41.75,42.25,41.25,41.75,6408000,9.92  
1991-06-18,42.25,43.25,41.50,42.13,8749200,10.01  
1991-06-17,41.00,42.25,41.00,42.00,5966800,9.98  
1991-06-14,42.75,42.75,40.75,41.13,8049200,9.77  
1991-06-13,42.50,43.00,41.75,42.13,7565200,10.01  
1991-06-12,44.00,44.75,41.25,42.38,15580000,10.07  
1991-06-11,45.00,45.50,44.25,44.63,6742400,10.60  
1991-06-10,46.00,47.13,45.75,46.00,5991200,10.93  
1991-06-07,46.25,47.00,45.63,46.13,5463600,10.96  
1991-06-06,48.25,48.25,46.50,46.63,6028000,11.08  
1991-06-05,49.25,49.25,47.75,48.00,4760800,11.40  
1991-06-04,49.50,49.50,48.50,49.13,6593600,11.67  
1991-06-03,47.00,49.50,46.75,49.25,7870800,11.70  
1991-05-31,47.50,47.75,46.25,47.00,7792400,11.17  
1991-05-30,47.00,47.75,46.50,47.63,5663600,11.32  
1991-05-29,46.25,47.75,45.88,47.00,13733600,11.17  
1991-05-28,46.00,46.25,45.25,46.00,6124400,10.93  
1991-05-24,45.50,46.00,45.00,45.88,3484800,10.90  
1991-05-23,46.50,46.75,44.75,45.13,7458800,10.72  
1991-05-22,45.75,46.50,45.50,46.25,8137600,10.99  
1991-05-21,45.25,46.50,44.75,45.25,12500000,10.75  
1991-05-20,47.25,47.50,44.00,44.25,9365200,10.51  
1991-05-17,48.75,48.75,46.50,47.00,16836800,11.14  
1991-05-16,51.00,51.25,48.50,49.00,13652000,11.61  
1991-05-15,51.50,52.00,49.00,50.50,18530800,11.97  
1991-05-14,52.75,53.75,52.50,53.50,7763600,12.68  
1991-05-13,52.25,53.50,51.50,52.75,8763600,12.50  
1991-05-10,51.50,53.25,50.75,51.25,8652000,12.14  
1991-05-09,50.00,51.50,49.75,50.75,8523200,12.03  
1991-05-08,50.75,50.75,49.25,49.75,6332400,11.79  
1991-05-07,51.00,51.25,50.50,50.63,9671200,12.00  
1991-05-06,48.50,50.50,48.25,50.25,7596400,11.91  
1991-05-03,49.00,49.50,48.25,49.00,8717600,11.61  
1991-05-02,47.75,49.75,47.50,49.00,28973600,11.61  
1991-05-01,48.00,49.00,47.00,47.25,66732000,11.20  
1991-04-30,57.75,58.25,54.50,55.00,25413600,13.03  
1991-04-29,58.50,60.25,58.25,58.25,7395200,13.80  
1991-04-26,58.50,59.00,57.75,58.63,4481200,13.89  
1991-04-25,59.75,59.75,58.50,58.50,11276800,13.86  
1991-04-24,61.75,62.00,60.50,60.75,3769200,14.40  
1991-04-23,62.25,63.00,60.25,61.50,8494400,14.57  
1991-04-22,59.50,62.00,58.75,61.50,9190000,14.57  
1991-04-19,61.00,61.50,59.50,59.63,10272400,14.13

1991-04-18,62.75,63.00,60.75,61.00,8853600,14.46  
1991-04-17,65.00,65.00,62.00,63.25,11533600,14.99  
1991-04-16,63.25,64.50,62.50,64.25,22176800,15.23  
1991-04-15,61.75,64.50,60.00,62.25,60732400,14.75  
1991-04-12,71.50,73.25,69.75,71.75,13140000,17.00  
1991-04-11,67.75,71.37,67.50,71.00,12710800,16.83  
1991-04-10,68.50,69.25,66.75,66.87,7733600,15.85  
1991-04-09,69.75,70.00,68.25,68.75,4280800,16.29  
1991-04-08,69.25,70.00,68.75,70.00,2604400,16.59  
1991-04-05,71.75,71.75,68.75,69.37,5567600,16.44  
1991-04-04,70.00,72.00,69.50,71.50,6024400,16.94  
1991-04-03,72.50,72.75,70.00,70.00,8585200,16.59  
1991-04-02,69.00,72.75,68.50,72.75,10473600,17.24  
1991-04-01,68.00,69.50,67.50,68.50,4218000,16.23  
1991-03-28,69.25,70.00,67.75,68.00,2816800,16.11  
1991-03-27,70.00,70.25,68.50,69.25,6812400,16.41  
1991-03-26,64.75,70.25,64.75,70.00,11935200,16.59  
1991-03-25,63.50,65.00,63.25,64.50,4858800,15.28  
1991-03-22,64.00,64.75,62.25,63.25,12096400,14.99  
1991-03-21,68.25,68.75,63.75,64.75,10600000,15.34  
1991-03-20,69.25,69.50,66.87,67.75,12939200,16.06  
1991-03-19,66.50,70.25,65.75,69.50,15100000,16.47  
1991-03-18,65.75,68.25,65.75,67.75,7645200,16.06  
1991-03-15,65.75,66.50,65.25,66.25,7335600,15.70  
1991-03-14,66.75,67.50,64.50,65.25,8126400,15.46  
1991-03-13,62.75,66.50,62.75,66.25,6253200,15.70  
1991-03-12,63.00,63.75,62.50,62.88,8360000,14.90  
1991-03-11,64.50,64.75,62.25,63.50,6276400,15.05  
1991-03-08,67.75,68.25,65.00,65.00,11522400,15.40  
1991-03-07,63.50,67.50,63.25,67.25,11497600,15.94  
1991-03-06,64.00,65.62,62.88,63.00,18731200,14.93  
1991-03-05,59.00,63.25,59.00,63.13,15769200,14.96  
1991-03-04,58.00,58.75,57.00,58.38,3175600,13.83  
1991-03-01,57.00,59.00,57.00,57.75,4518800,13.69  
1991-02-28,58.25,58.50,56.25,57.25,8120000,13.57  
1991-02-27,58.25,58.50,57.50,58.25,6243200,13.80  
1991-02-26,57.50,58.75,56.50,58.25,8934400,13.80  
1991-02-25,60.25,60.50,57.50,58.00,12848800,13.74  
1991-02-22,59.00,61.75,58.50,59.75,8320800,14.16  
1991-02-21,61.25,62.25,58.75,59.00,6826400,13.98  
1991-02-20,59.50,61.75,59.25,61.00,7646800,14.46  
1991-02-19,57.50,60.25,57.38,60.00,8080800,14.22  
1991-02-15,57.25,58.50,57.25,57.63,13067600,13.66  
1991-02-14,60.00,60.00,56.75,57.13,13493200,13.51  
1991-02-13,60.00,60.25,58.00,60.00,9130800,14.19  
1991-02-12,61.00,61.25,59.38,60.00,8042000,14.19  
1991-02-11,60.00,61.50,59.75,61.38,11546400,14.51  
1991-02-08,57.50,60.25,57.50,59.88,11220000,14.16

1991-02-07,57.00,58.75,55.75,57.75,18587600,13.66  
1991-02-06,57.75,58.25,56.50,56.88,7965200,13.45  
1991-02-05,55.25,58.00,54.75,57.75,12740000,13.66  
1991-02-04,55.75,56.00,55.00,55.25,9569200,13.07  
1991-02-01,55.50,57.88,55.50,55.75,15897600,13.18  
1991-01-31,55.50,56.00,54.75,55.50,8677600,13.12  
1991-01-30,53.25,55.75,53.25,55.50,12043200,13.12  
1991-01-29,54.25,54.50,52.25,53.75,7708800,12.71  
1991-01-28,53.25,55.25,53.25,54.50,9771200,12.89  
1991-01-25,52.00,53.63,52.00,53.50,8012000,12.65  
1991-01-24,51.50,52.75,51.50,52.13,8374400,12.33  
1991-01-23,51.25,52.25,51.00,51.75,8725600,12.24  
1991-01-22,51.00,52.50,50.50,51.25,15296400,12.12  
1991-01-21,49.75,51.50,49.75,50.75,11595200,12.00  
1991-01-18,48.75,50.75,48.50,50.25,33691200,11.88  
1991-01-17,52.50,52.75,49.00,51.25,21137600,12.12  
1991-01-16,47.00,50.00,46.75,49.75,13968800,11.76  
1991-01-15,46.50,46.75,46.00,46.75,6870000,11.06  
1991-01-14,46.00,46.75,46.00,46.25,7535600,10.94  
1991-01-11,47.00,47.25,46.00,47.00,11003200,11.11  
1991-01-10,45.75,47.25,45.75,47.13,15562400,11.15  
1991-01-09,44.25,46.00,43.75,45.25,16692400,10.70  
1991-01-08,43.75,43.88,42.50,43.25,7816400,10.23  
1991-01-07,43.00,45.25,43.00,43.25,11111200,10.23  
1991-01-04,43.00,44.25,43.00,43.25,5062400,10.23  
1991-01-03,43.50,44.25,43.00,43.00,5365600,10.17  
1991-01-02,42.75,44.00,42.00,43.50,5543600,10.29  
1990-12-31,43.00,43.25,42.75,43.00,1593200,10.17  
1990-12-28,43.25,43.50,42.75,43.00,2285200,10.17  
1990-12-27,43.25,44.00,43.25,43.50,3492000,10.29  
1990-12-26,44.00,44.25,43.00,43.75,3682000,10.35  
1990-12-24,44.75,45.00,44.00,44.00,2106800,10.40  
1990-12-21,44.25,45.25,43.50,45.00,12363200,10.64  
1990-12-20,41.25,44.50,41.25,44.00,14326400,10.40  
1990-12-19,42.50,42.50,41.13,41.88,5036800,9.90  
1990-12-18,41.00,42.50,40.75,42.25,7899200,9.99  
1990-12-17,39.00,40.50,39.00,40.13,4683600,9.49  
1990-12-14,40.25,40.50,39.50,39.88,3126400,9.43  
1990-12-13,39.50,41.00,39.50,40.75,5752000,9.64  
1990-12-12,39.75,40.00,39.00,39.63,8664400,9.37  
1990-12-11,41.25,41.50,40.00,40.00,12438000,9.46  
1990-12-10,42.25,42.50,41.50,41.75,8966400,9.87  
1990-12-07,41.00,42.75,41.00,42.50,11781200,10.05  
1990-12-06,41.25,41.75,40.50,41.25,19013600,9.75  
1990-12-05,38.50,40.25,37.88,40.13,7822000,9.49  
1990-12-04,37.50,38.75,37.50,38.50,5453200,9.10  
1990-12-03,37.25,38.25,37.00,38.13,5922400,9.02  
1990-11-30,36.25,37.25,36.25,36.75,4350800,8.69

1990-11-29,37.00,37.00,36.25,36.75,4528000,8.69  
1990-11-28,37.75,38.50,36.75,36.75,6250800,8.69  
1990-11-27,37.00,38.25,36.75,37.50,5899200,8.87  
1990-11-26,36.00,37.00,36.00,36.75,2925600,8.69  
1990-11-23,36.25,37.00,36.00,36.38,1911200,8.60  
1990-11-21,35.25,36.25,34.75,36.13,4400800,8.54  
1990-11-20,36.50,36.75,35.25,35.50,5490800,8.39  
1990-11-19,35.50,36.38,35.25,36.38,8017600,8.60  
1990-11-16,35.75,36.00,34.75,35.13,6545200,8.31  
1990-11-15,36.75,37.00,35.50,36.00,5787600,8.48  
1990-11-14,35.75,37.25,35.75,37.00,6819200,8.72  
1990-11-13,36.25,36.50,35.75,36.00,5086400,8.48  
1990-11-12,35.50,36.75,35.25,36.25,5192000,8.54  
1990-11-09,35.00,35.75,34.50,35.50,7102000,8.37  
1990-11-08,33.00,35.00,33.00,34.50,7136400,8.13  
1990-11-07,33.50,33.75,32.63,33.25,7254400,7.84  
1990-11-06,33.50,34.50,33.25,33.50,6620800,7.90  
1990-11-05,32.25,33.50,32.00,33.25,6604400,7.84  
1990-11-02,30.50,32.38,30.50,31.75,5323200,7.48  
1990-11-01,30.50,31.00,29.75,30.50,3258800,7.19  
1990-10-31,30.50,31.87,30.25,30.75,5331200,7.25  
1990-10-30,29.75,30.75,28.87,30.37,3513600,7.16  
1990-10-29,30.25,30.50,29.75,29.87,4415600,7.04  
1990-10-26,29.75,31.25,29.75,30.00,4811200,7.07  
1990-10-25,30.25,31.25,29.62,30.00,5481200,7.07  
1990-10-24,30.75,31.00,30.00,30.50,5079200,7.19  
1990-10-23,31.00,31.50,30.25,31.00,5969200,7.31  
1990-10-22,31.50,31.50,30.50,31.12,9041200,7.33  
1990-10-19,31.25,31.75,30.25,31.37,33363200,7.39  
1990-10-18,26.50,28.75,26.50,28.50,11255600,6.72  
1990-10-17,25.25,26.50,25.00,26.50,11059200,6.25  
1990-10-16,27.50,27.50,24.25,25.00,10913200,5.89  
1990-10-15,28.50,28.75,26.62,27.75,7190000,6.54  
1990-10-12,28.25,28.50,27.00,28.25,8169200,6.66  
1990-10-11,26.75,27.87,25.50,27.75,7376800,6.54  
1990-10-10,27.25,28.00,26.00,26.50,5283600,6.25  
1990-10-09,28.50,29.00,27.75,28.00,4321200,6.60  
1990-10-08,28.75,29.25,28.25,29.12,2218800,6.86  
1990-10-05,27.00,28.75,27.00,28.00,3572000,6.60  
1990-10-04,26.75,28.00,26.25,28.00,7638800,6.60  
1990-10-03,29.75,29.75,26.75,27.00,9591200,6.36  
1990-10-02,31.00,32.00,29.50,29.62,9699200,6.98  
1990-10-01,29.50,31.00,29.25,30.50,5581200,7.19  
1990-09-28,28.50,29.00,27.25,29.00,6291200,6.83  
1990-09-27,30.00,30.50,28.00,28.25,5085600,6.66  
1990-09-26,30.00,30.50,29.75,29.75,3363200,7.01  
1990-09-25,30.50,30.75,29.25,30.00,5642000,7.07  
1990-09-24,31.50,31.50,29.75,30.25,4961200,7.13

1990-09-21,32.00,32.50,31.00,31.50,5503600,7.42  
1990-09-20,32.25,32.25,31.25,31.62,3607600,7.45  
1990-09-19,33.25,33.75,32.00,32.50,6536800,7.66  
1990-09-18,33.75,33.75,33.00,33.38,4456400,7.87  
1990-09-17,34.00,35.25,33.50,33.75,2782000,7.95  
1990-09-14,33.50,34.25,33.25,34.00,4084400,8.01  
1990-09-13,34.50,34.75,33.00,33.75,3492400,7.95  
1990-09-12,34.50,34.50,33.50,34.00,3600800,8.01  
1990-09-11,36.00,36.13,33.75,34.00,6370800,8.01  
1990-09-10,37.00,37.00,35.75,35.75,2732400,8.43  
1990-09-07,35.50,36.75,35.13,36.38,2098800,8.57  
1990-09-06,35.50,36.00,35.25,35.75,3134800,8.43  
1990-09-05,37.25,37.25,35.75,36.00,2292000,8.48  
1990-09-04,36.50,37.50,36.50,37.00,2974800,8.72  
1990-08-31,36.00,37.25,36.00,37.00,3570000,8.72  
1990-08-30,37.25,37.50,36.00,36.25,4388800,8.54  
1990-08-29,38.00,38.13,36.75,37.25,5407600,8.78  
1990-08-28,37.50,38.38,37.25,38.13,2877600,8.99  
1990-08-27,36.75,38.00,36.25,37.75,4214800,8.90  
1990-08-24,35.25,36.00,34.75,35.50,2634400,8.37  
1990-08-23,34.25,35.00,33.50,34.50,5138800,8.13  
1990-08-22,37.00,37.00,34.88,35.13,4395600,8.28  
1990-08-21,35.75,36.75,35.25,36.25,5769200,8.54  
1990-08-20,36.50,37.50,36.25,36.75,2681200,8.66  
1990-08-17,38.50,38.50,35.75,36.50,8806400,8.58  
1990-08-16,39.00,39.63,38.50,38.50,4438800,9.05  
1990-08-15,40.00,40.25,39.25,39.25,3292000,9.22  
1990-08-14,40.00,40.00,39.25,39.75,3520800,9.34  
1990-08-13,38.00,40.00,37.88,39.88,5584400,9.37  
1990-08-10,38.75,39.25,38.25,38.75,3683600,9.11  
1990-08-09,40.25,40.50,39.25,39.50,3443600,9.28  
1990-08-08,39.50,40.75,39.50,40.13,3674400,9.43  
1990-08-07,40.25,40.63,38.75,39.50,7096400,9.28  
1990-08-06,39.00,40.50,38.50,39.50,6425600,9.28  
1990-08-03,43.50,43.75,39.75,41.25,9609200,9.69  
1990-08-02,41.25,43.75,41.25,43.50,7973600,10.22  
1990-08-01,42.00,42.75,41.50,42.38,3350800,9.96  
1990-07-31,42.50,42.75,41.50,42.00,3444800,9.87  
1990-07-30,40.75,42.50,40.75,42.38,3058800,9.96  
1990-07-27,41.25,41.75,40.50,41.38,2240000,9.72  
1990-07-26,42.25,42.50,41.00,41.38,2885600,9.72  
1990-07-25,42.00,43.25,41.75,42.25,3762400,9.93  
1990-07-24,42.00,42.25,41.00,42.13,6928800,9.90  
1990-07-23,41.00,41.75,40.00,41.50,9655200,9.75  
1990-07-20,42.00,42.50,40.75,41.00,6858000,9.63  
1990-07-19,40.75,42.50,40.00,41.75,20932400,9.81  
1990-07-18,44.50,45.00,43.00,44.63,10309200,10.49  
1990-07-17,45.75,46.00,44.00,44.25,4892000,10.40

1990-07-16,46.75,47.13,45.25,45.63,6428000,10.72  
1990-07-13,47.50,47.75,46.75,46.75,8254400,10.99  
1990-07-12,46.75,47.50,46.50,47.38,6537600,11.13  
1990-07-11,46.75,47.00,45.75,47.00,8808800,11.04  
1990-07-10,47.00,47.50,46.75,47.00,12923600,11.04  
1990-07-09,45.00,47.00,44.75,46.63,11281200,10.96  
1990-07-06,43.50,45.00,43.25,44.75,7481200,10.52  
1990-07-05,43.75,44.25,43.25,43.50,3859200,10.22  
1990-07-03,43.88,44.50,43.75,44.00,3572400,10.34  
1990-07-02,44.50,44.50,43.75,44.00,4856400,10.34  
1990-06-29,43.00,44.88,42.75,44.75,11622000,10.52  
1990-06-28,42.75,43.25,41.75,43.00,8930000,10.10  
1990-06-27,40.75,42.00,40.25,41.50,3490800,9.75  
1990-06-26,41.75,42.00,40.38,40.63,4558800,9.55  
1990-06-25,41.50,41.75,40.25,41.25,4378000,9.69  
1990-06-22,42.00,42.63,41.25,41.50,10154400,9.75  
1990-06-21,40.00,42.00,40.00,41.88,7455600,9.84  
1990-06-20,39.88,40.25,39.75,40.00,5530000,9.40  
1990-06-19,39.00,39.75,38.38,39.63,5623600,9.31  
1990-06-18,39.25,39.50,39.00,39.25,3988800,9.22  
1990-06-15,39.75,40.00,39.13,39.50,5163600,9.28  
1990-06-14,40.00,40.25,39.25,39.75,5018000,9.34  
1990-06-13,40.38,40.75,39.75,39.75,4963600,9.34  
1990-06-12,39.13,40.50,38.75,40.50,5902000,9.52  
1990-06-11,37.75,39.00,37.75,39.00,5661200,9.16  
1990-06-08,38.50,38.50,37.50,38.25,11926800,8.99  
1990-06-07,39.50,39.75,38.50,39.00,6668800,9.16  
1990-06-06,39.00,39.50,38.75,39.50,7563600,9.28  
1990-06-05,41.00,41.00,39.00,39.50,10702000,9.28  
1990-06-04,40.75,41.00,39.75,40.75,6412400,9.58  
1990-06-01,41.38,42.00,40.75,40.75,5624400,9.58  
1990-05-31,41.50,41.50,41.00,41.25,3682400,9.69  
1990-05-30,41.63,41.75,41.25,41.38,9890000,9.72  
1990-05-29,40.00,41.25,39.25,41.00,8689200,9.63  
1990-05-25,39.50,40.75,39.00,40.00,11562400,9.40  
1990-05-24,42.25,42.25,41.50,42.00,5296400,9.87  
1990-05-23,41.25,42.50,41.25,42.00,7417600,9.87  
1990-05-22,40.13,41.50,40.00,41.38,10772000,9.72  
1990-05-21,39.50,40.00,38.75,39.50,9382400,9.28  
1990-05-18,41.25,41.50,39.50,39.75,9248000,9.31  
1990-05-17,41.75,42.25,41.00,41.50,5488000,9.72  
1990-05-16,41.75,41.75,41.00,41.63,3139200,9.76  
1990-05-15,41.38,42.00,41.00,41.75,5343600,9.78  
1990-05-14,42.75,42.75,41.25,41.75,8088000,9.78  
1990-05-11,41.38,42.75,40.75,42.63,7691200,9.99  
1990-05-10,41.75,41.75,40.50,41.38,6413600,9.70  
1990-05-09,41.63,42.00,41.25,41.88,3491200,9.81  
1990-05-08,41.00,42.00,41.00,41.75,4025600,9.78



1990-05-07,39.75,41.75,39.75,41.50,4866400,9.72  
1990-05-04,40.00,40.75,39.25,40.00,6063200,9.37  
1990-05-03,39.75,40.25,39.75,40.00,5950800,9.37  
1990-05-02,39.75,40.00,39.25,39.75,4857600,9.31  
1990-05-01,39.75,40.00,39.38,39.63,5845200,9.29  
1990-04-30,39.25,39.75,39.00,39.38,4888800,9.23  
1990-04-27,39.00,39.50,38.75,39.13,4178800,9.17  
1990-04-26,39.00,39.50,38.13,38.88,5098000,9.11  
1990-04-25,38.75,39.00,38.25,38.75,4743200,9.08  
1990-04-24,40.00,40.50,38.50,38.75,10852000,9.08  
1990-04-23,40.25,40.50,39.50,39.75,4597600,9.31  
1990-04-20,40.88,41.50,39.75,40.25,11573600,9.43  
1990-04-19,41.75,43.13,40.00,40.25,17215600,9.43  
1990-04-18,43.25,43.75,42.50,43.25,6925200,10.13  
1990-04-17,43.25,43.50,42.75,43.25,4683600,10.13  
1990-04-16,43.50,44.25,43.25,43.75,8116400,10.25  
1990-04-12,43.00,44.00,42.50,43.25,7566800,10.13  
1990-04-11,41.50,43.00,41.50,42.50,7620000,9.96  
1990-04-10,41.25,42.00,41.00,41.25,4695600,9.67  
1990-04-09,39.75,41.50,39.50,41.13,3771200,9.64  
1990-04-06,40.25,41.25,39.75,39.88,4235600,9.35  
1990-04-05,41.00,41.25,40.00,40.25,3877600,9.43  
1990-04-04,41.50,42.00,40.75,41.25,5363200,9.67  
1990-04-03,40.50,41.75,40.50,41.75,5006400,9.78  
1990-04-02,40.00,40.63,39.50,40.25,5332000,9.43  
1990-03-30,40.00,41.00,40.00,40.25,7986400,9.43  
1990-03-29,41.00,41.50,40.75,41.13,3472000,9.64  
1990-03-28,42.00,42.13,41.00,41.25,3696800,9.67  
1990-03-27,42.00,42.25,41.25,42.00,3033600,9.84  
1990-03-26,42.50,43.38,42.00,42.25,4581200,9.90  
1990-03-23,41.25,43.00,41.00,42.25,8155200,9.90  
1990-03-22,41.75,42.25,40.75,40.75,8292400,9.55  
1990-03-21,41.25,42.25,41.25,41.63,5463200,9.76  
1990-03-20,42.25,43.00,40.75,41.38,13984400,9.70  
1990-03-19,40.50,42.50,40.00,42.38,15433200,9.93  
1990-03-16,40.00,40.75,39.13,40.25,23042400,9.43  
1990-03-15,36.50,38.00,36.50,36.75,4302000,8.61  
1990-03-14,36.75,37.25,36.50,37.00,3654800,8.67  
1990-03-13,36.50,37.25,36.25,36.88,5321200,8.64  
1990-03-12,37.25,37.50,36.25,36.63,5864400,8.58  
1990-03-09,36.75,37.50,36.25,36.88,8248800,8.64  
1990-03-08,35.75,37.00,35.00,36.75,8013600,8.61  
1990-03-07,35.00,36.00,35.00,35.38,7301200,8.29  
1990-03-06,35.00,35.25,34.50,35.25,5578800,8.26  
1990-03-05,33.50,34.75,33.50,34.50,6537600,8.08  
1990-03-02,33.50,34.75,33.25,33.75,3761200,7.91  
1990-03-01,33.50,34.75,33.25,34.25,7283200,8.03  
1990-02-28,33.50,34.00,33.25,34.00,3918800,7.97

1990-02-27,34.00,34.25,33.50,33.50,2642000,7.85  
1990-02-26,33.00,34.25,33.00,34.00,2844800,7.97  
1990-02-23,32.75,33.50,32.75,33.25,5375600,7.79  
1990-02-22,34.00,34.50,33.00,33.00,6976800,7.73  
1990-02-21,32.75,34.25,32.50,34.00,6283600,7.97  
1990-02-20,33.50,33.75,33.00,33.50,4402400,7.85  
1990-02-16,34.25,34.50,33.75,33.75,4556400,7.91  
1990-02-15,33.75,34.25,33.50,34.25,3509200,8.00  
1990-02-14,34.50,34.75,33.75,34.25,3448000,8.00  
1990-02-13,34.00,35.00,33.75,34.50,3653600,8.06  
1990-02-12,34.25,34.50,33.75,34.00,2695600,7.94  
1990-02-09,33.50,34.50,33.25,34.25,6004400,8.00  
1990-02-08,33.25,33.50,32.25,33.00,6680000,7.71  
1990-02-07,33.00,34.00,32.50,33.25,11180800,7.77  
1990-02-06,34.75,35.00,34.00,34.75,2640000,8.12  
1990-02-05,34.25,35.25,34.00,35.00,3653200,8.18  
1990-02-02,33.25,34.75,33.25,34.25,4248800,8.00  
1990-02-01,34.50,34.63,33.50,33.63,4193200,7.86  
1990-01-31,34.50,34.75,33.00,34.00,5152400,7.94  
1990-01-30,33.25,34.50,33.00,34.00,4180800,7.94  
1990-01-29,33.00,33.50,32.13,33.25,4284800,7.77  
1990-01-26,34.00,34.00,32.25,32.75,6492000,7.65  
1990-01-25,34.25,34.75,34.00,34.13,3996800,7.97  
1990-01-24,32.50,34.25,32.25,34.00,6077600,7.94  
1990-01-23,33.75,34.25,33.00,33.75,5048800,7.88  
1990-01-22,34.00,34.50,33.25,33.25,5200800,7.77  
1990-01-19,33.75,34.50,33.50,34.25,9485600,8.00  
1990-01-18,33.00,33.50,32.25,32.38,9760800,7.56  
1990-01-17,34.75,34.75,33.00,33.25,7050000,7.77  
1990-01-16,33.50,35.00,32.75,34.88,7658000,8.15  
1990-01-15,34.50,35.75,34.25,34.25,5785600,8.00  
1990-01-12,34.25,34.75,33.75,34.50,6150000,8.06  
1990-01-11,36.25,36.25,34.50,34.50,7547600,8.06  
1990-01-10,37.63,37.63,35.75,36.00,7140000,8.41  
1990-01-09,38.00,38.00,37.00,37.63,3096800,8.79  
1990-01-08,37.50,38.00,37.00,38.00,3643200,8.88  
1990-01-05,37.75,38.25,37.00,37.75,4406400,8.82  
1990-01-04,38.25,38.75,37.25,37.63,7928800,8.79  
1990-01-03,38.00,38.00,37.50,37.50,7444400,8.76  
1990-01-02,35.25,37.50,35.00,37.25,6555600,8.70  
1989-12-29,34.75,35.75,34.38,35.25,5445200,8.23  
1989-12-28,35.00,35.25,34.25,34.63,5403200,8.09  
1989-12-27,35.50,35.75,35.00,35.13,9189200,8.21  
1989-12-26,36.75,36.75,35.25,35.50,4849200,8.29  
1989-12-22,36.25,37.25,36.00,36.50,6610800,8.53  
1989-12-21,35.75,36.25,35.50,36.25,10889200,8.47  
1989-12-20,35.75,36.25,35.25,35.75,6377600,8.35  
1989-12-19,34.50,35.50,34.50,35.00,8977600,8.18

1989-12-18,33.75,35.00,33.75,34.75,10978000,8.12  
1989-12-15,34.75,35.00,32.50,33.75,18520800,7.88  
1989-12-14,35.75,36.13,34.50,34.88,10886400,8.15  
1989-12-13,36.00,36.50,35.50,36.00,13920000,8.41  
1989-12-12,39.25,39.50,35.00,36.00,36634400,8.41  
1989-12-11,41.00,41.50,38.38,39.25,23223200,9.17  
1989-12-08,42.50,43.00,41.25,41.75,9032400,9.75  
1989-12-07,42.25,43.25,42.00,42.75,6378800,9.99  
1989-12-06,45.00,45.25,41.00,42.75,11965600,9.99  
1989-12-05,45.25,45.75,44.50,45.00,4364800,10.51  
1989-12-04,43.75,45.50,43.75,45.25,3498000,10.57  
1989-12-01,44.50,45.00,43.63,44.00,5235200,10.28  
1989-11-30,43.75,44.50,43.50,44.25,2280800,10.34  
1989-11-29,43.50,44.25,42.50,44.00,5475200,10.28  
1989-11-28,43.75,44.25,42.75,44.13,4854400,10.31  
1989-11-27,44.75,45.25,43.75,44.00,3774800,10.28  
1989-11-24,44.75,45.00,44.75,44.75,1014400,10.45  
1989-11-22,45.50,45.75,44.50,44.75,3508000,10.45  
1989-11-21,45.25,46.50,45.25,45.25,5013600,10.57  
1989-11-20,45.00,45.50,44.50,45.25,3870800,10.57  
1989-11-17,44.50,45.25,44.50,44.75,3164400,10.45  
1989-11-16,44.50,44.75,43.75,44.75,3453600,10.43  
1989-11-15,45.00,45.25,44.00,44.25,3499200,10.31  
1989-11-14,46.50,46.75,44.50,44.75,3021200,10.43  
1989-11-13,46.50,47.25,46.50,46.50,2445600,10.83  
1989-11-10,45.75,47.00,45.75,46.75,2336800,10.89  
1989-11-09,45.00,46.00,44.50,46.00,3166400,10.72  
1989-11-08,44.25,45.25,44.25,45.00,5102000,10.49  
1989-11-07,43.25,44.50,43.25,44.00,5406800,10.25  
1989-11-06,43.50,44.00,43.00,43.25,4416400,10.08  
1989-11-03,44.00,44.50,43.25,43.25,6258800,10.08  
1989-11-02,45.00,45.00,43.00,44.00,16170800,10.25  
1989-11-01,46.25,46.75,45.75,46.13,2199200,10.75  
1989-10-31,45.75,46.50,45.50,46.50,3288800,10.83  
1989-10-30,45.50,46.00,45.00,45.75,3121200,10.66  
1989-10-27,45.25,45.75,44.50,45.25,4634400,10.54  
1989-10-26,45.50,46.50,45.00,45.25,6048000,10.54  
1989-10-25,47.75,47.75,46.25,46.50,4263600,10.83  
1989-10-24,46.25,48.50,45.25,47.63,7735600,11.10  
1989-10-23,48.00,48.25,46.25,46.75,4375600,10.89  
1989-10-20,47.75,49.25,47.50,48.00,9350800,11.18  
1989-10-19,48.25,49.50,48.25,48.75,4016800,11.36  
1989-10-18,46.50,48.25,46.00,48.25,5157600,11.24  
1989-10-17,46.00,48.75,45.00,47.25,8935600,11.01  
1989-10-16,44.75,46.75,42.50,46.75,15184400,10.89  
1989-10-13,48.75,49.50,45.00,45.75,7195600,10.66  
1989-10-12,49.00,49.25,48.50,48.75,2969200,11.36  
1989-10-11,48.75,49.25,48.00,48.88,5608800,11.39

1989-10-10,49.75,50.38,48.50,49.50,10262400,11.53  
1989-10-09,48.00,49.75,47.50,49.50,6997600,11.53  
1989-10-06,46.25,48.25,46.00,48.13,12939200,11.21  
1989-10-05,44.50,46.50,44.25,45.50,8760000,10.60  
1989-10-04,43.75,44.63,43.50,44.25,5687600,10.31  
1989-10-03,44.25,44.50,43.13,43.63,6094400,10.17  
1989-10-02,44.50,44.75,43.75,44.38,4922400,10.34  
1989-09-29,45.25,45.50,44.50,44.50,2500800,10.37  
1989-09-28,45.00,45.75,45.00,45.50,2856800,10.60  
1989-09-27,44.25,45.13,44.00,44.75,3229200,10.43  
1989-09-26,45.00,45.50,44.75,45.25,2762400,10.54  
1989-09-25,44.75,45.75,44.75,45.25,4875600,10.54  
1989-09-22,44.75,45.25,44.25,44.88,2605600,10.46  
1989-09-21,45.00,46.00,44.25,44.75,7186800,10.43  
1989-09-20,44.00,45.00,43.75,44.63,4230800,10.40  
1989-09-19,44.25,44.50,43.00,43.25,2888800,10.08  
1989-09-18,44.50,45.00,44.00,44.00,2264400,10.25  
1989-09-15,45.00,45.25,44.25,45.00,4470800,10.49  
1989-09-14,45.00,45.25,44.50,44.75,4693600,10.43  
1989-09-13,46.25,46.63,45.00,45.00,4616400,10.49  
1989-09-12,45.50,46.75,45.00,46.00,3710800,10.72  
1989-09-11,44.75,46.00,44.50,45.75,3522000,10.66  
1989-09-08,44.75,45.25,44.50,45.00,2013200,10.49  
1989-09-07,44.75,45.50,44.75,44.75,4083200,10.43  
1989-09-06,44.75,44.88,44.00,44.75,3108800,10.43  
1989-09-05,44.50,45.38,44.50,44.75,4112400,10.43  
1989-09-01,44.50,44.75,44.25,44.63,2651200,10.40  
1989-08-31,44.50,45.00,44.25,44.50,2016400,10.37  
1989-08-30,44.00,44.75,44.00,44.50,4161200,10.37  
1989-08-29,44.75,45.00,43.75,44.13,6339200,10.28  
1989-08-28,44.50,45.00,44.00,44.75,2936800,10.43  
1989-08-25,44.00,45.00,44.00,44.75,5766400,10.43  
1989-08-24,43.75,44.50,43.50,44.13,5829200,10.28  
1989-08-23,43.00,44.25,42.50,43.75,6202400,10.19  
1989-08-22,42.00,43.00,42.00,42.88,4013200,9.99  
1989-08-21,42.25,43.25,42.00,42.25,4923600,9.84  
1989-08-18,41.75,42.50,41.50,42.25,3003600,9.82  
1989-08-17,40.25,41.25,40.00,41.00,5495600,9.53  
1989-08-16,41.50,41.75,40.00,40.38,4318800,9.39  
1989-08-15,40.75,41.50,40.75,41.38,5852000,9.62  
1989-08-14,41.50,42.00,40.50,40.75,3690800,9.47  
1989-08-11,44.00,44.00,41.25,41.88,8226800,9.74  
1989-08-10,44.00,44.00,42.75,43.25,5442400,10.05  
1989-08-09,44.00,45.75,43.88,44.00,6975600,10.23  
1989-08-08,43.50,44.75,43.50,44.13,7366400,10.26  
1989-08-07,43.00,44.00,42.63,43.75,6012000,10.17  
1989-08-04,41.25,42.75,41.13,42.75,6564400,9.94  
1989-08-03,40.50,41.50,40.50,41.25,6185600,9.59

1989-08-02,39.75,40.50,39.50,40.50,3633600,9.41  
1989-08-01,39.75,40.25,39.25,39.88,4996800,9.27  
1989-07-31,39.25,40.00,39.00,39.75,4014800,9.24  
1989-07-28,39.25,39.75,39.00,39.38,4274400,9.15  
1989-07-27,38.25,39.50,38.00,39.25,6193200,9.12  
1989-07-26,38.25,38.50,37.75,38.25,8363600,8.89  
1989-07-25,39.25,39.75,38.00,38.75,7502400,9.01  
1989-07-24,39.75,39.75,39.25,39.25,4154800,9.12  
1989-07-21,39.75,40.00,39.00,40.00,4993600,9.30  
1989-07-20,40.75,41.25,39.75,40.00,8448800,9.30  
1989-07-19,39.50,40.75,39.00,40.50,8543200,9.41  
1989-07-18,40.75,40.75,38.75,39.25,17050800,9.12  
1989-07-17,40.75,41.25,39.75,40.75,4694400,9.47  
1989-07-14,40.75,41.00,39.75,40.75,9206800,9.47  
1989-07-13,40.00,41.00,39.50,40.63,8057600,9.44  
1989-07-12,39.75,40.25,39.50,40.00,4452000,9.30  
1989-07-11,40.75,41.00,39.75,39.75,8729200,9.24  
1989-07-10,41.00,41.25,40.00,40.50,7294400,9.41  
1989-07-07,41.25,42.00,40.50,41.25,3806400,9.59  
1989-07-06,40.75,41.75,40.25,41.25,6218000,9.59  
1989-07-05,40.50,40.75,40.00,40.50,4264400,9.41  
1989-07-03,41.75,41.75,40.75,40.75,1730800,9.47  
1989-06-30,40.50,41.75,39.50,41.25,5885600,9.59  
1989-06-29,41.00,41.25,40.00,40.63,8351200,9.44  
1989-06-28,42.25,42.25,41.00,41.75,9190800,9.70  
1989-06-27,43.75,44.25,42.50,42.63,3788000,9.91  
1989-06-26,44.00,44.00,43.25,43.50,6568800,10.11  
1989-06-23,43.25,44.25,43.25,43.88,4438800,10.20  
1989-06-22,42.50,43.75,42.00,43.25,4911200,10.05  
1989-06-21,43.00,43.50,42.25,42.50,4659200,9.88  
1989-06-20,44.00,44.00,42.25,43.00,4807600,10.00  
1989-06-19,44.50,44.75,43.50,44.00,6551200,10.23  
1989-06-16,44.75,45.50,43.50,44.50,19378000,10.34  
1989-06-15,49.50,49.75,47.50,47.50,5766800,11.04  
1989-06-14,49.00,50.25,48.25,49.63,8983600,11.54  
1989-06-13,47.50,48.75,47.00,48.50,8254400,11.27  
1989-06-12,46.75,47.75,46.25,47.50,2892400,11.04  
1989-06-09,47.25,47.75,46.50,47.00,3378800,10.93  
1989-06-08,48.50,49.00,47.25,47.63,6378800,11.07  
1989-06-07,46.75,48.50,46.75,48.25,6293200,11.22  
1989-06-06,46.75,47.00,46.25,46.75,5189200,10.87  
1989-06-05,48.75,49.00,46.50,47.00,4451200,10.93  
1989-06-02,48.50,49.50,48.50,49.00,4448800,11.39  
1989-06-01,47.75,49.25,47.50,48.75,6416800,11.33  
1989-05-31,47.50,48.13,47.00,47.75,4134400,11.10  
1989-05-30,48.25,49.00,47.38,47.50,4018000,11.04  
1989-05-26,48.25,49.00,48.00,48.50,4028800,11.27  
1989-05-25,47.25,49.00,47.25,48.25,8309200,11.22

1989-05-24,45.25,47.75,45.25,47.75,10645200,11.10  
1989-05-23,46.00,46.00,45.25,45.50,4803600,10.58  
1989-05-22,45.75,46.25,45.25,46.00,6800000,10.69  
1989-05-19,44.75,46.25,44.75,45.75,11820800,10.61  
1989-05-18,45.25,45.50,44.75,44.75,7558800,10.38  
1989-05-17,45.25,45.50,45.00,45.25,8892400,10.50  
1989-05-16,46.00,46.25,45.00,45.38,8170800,10.53  
1989-05-15,44.75,46.25,44.75,46.00,11372400,10.67  
1989-05-12,44.50,45.00,44.00,45.00,16685600,10.44  
1989-05-11,43.25,44.25,43.00,43.88,10763600,10.18  
1989-05-10,43.00,43.50,42.50,43.25,8380000,10.03  
1989-05-09,42.00,43.00,42.00,42.50,12398800,9.86  
1989-05-08,41.50,42.25,41.50,42.25,7373600,9.80  
1989-05-05,42.50,42.75,41.50,41.50,16464400,9.63  
1989-05-04,40.25,41.25,40.00,41.00,6762000,9.51  
1989-05-03,39.75,40.75,39.75,40.25,7896800,9.34  
1989-05-02,39.00,40.25,39.00,39.88,7719200,9.25  
1989-05-01,38.50,39.25,38.50,39.00,2881200,9.05  
1989-04-28,39.25,39.50,38.50,39.00,3725600,9.05  
1989-04-27,39.50,40.00,39.00,39.38,4988000,9.13  
1989-04-26,40.00,40.25,39.13,39.75,6652000,9.22  
1989-04-25,40.00,40.50,39.75,40.00,4165600,9.28  
1989-04-24,40.00,40.25,39.50,40.13,3977600,9.31  
1989-04-21,40.50,40.88,39.75,40.13,4132000,9.31  
1989-04-20,40.75,41.50,40.25,40.75,6434400,9.45  
1989-04-19,40.00,41.63,39.75,40.88,15215600,9.48  
1989-04-18,39.50,40.50,39.25,40.13,20055200,9.31  
1989-04-17,38.50,39.25,38.00,39.25,5008000,9.10  
1989-04-14,39.00,39.25,38.25,38.75,4408800,8.99  
1989-04-13,38.75,39.50,38.25,38.50,6493200,8.93  
1989-04-12,38.25,39.25,37.88,38.50,13862000,8.93  
1989-04-11,37.50,38.00,37.00,37.75,5252400,8.76  
1989-04-10,37.25,38.00,36.75,37.00,4854400,8.58  
1989-04-07,36.00,37.50,36.00,37.38,12699200,8.67  
1989-04-06,34.75,36.13,34.50,36.00,5598800,8.35  
1989-04-05,34.50,35.25,34.25,35.00,4303200,8.12  
1989-04-04,34.50,34.88,33.88,34.50,4140800,8.00  
1989-04-03,35.50,36.25,34.75,35.00,5949200,8.12  
1989-03-31,35.00,35.75,34.75,35.63,6630800,8.26  
1989-03-30,34.25,35.00,34.00,34.75,3780800,8.06  
1989-03-29,34.00,34.50,34.00,34.25,2666800,7.94  
1989-03-28,34.00,34.50,34.00,34.00,5047600,7.89  
1989-03-27,34.25,34.50,33.50,33.75,5425600,7.83  
1989-03-23,34.00,34.50,33.75,34.38,4250800,7.97  
1989-03-22,34.25,34.75,33.75,33.88,5180800,7.86  
1989-03-21,35.50,35.50,34.75,34.88,4588800,8.09  
1989-03-20,35.00,35.25,34.50,34.88,6480800,8.09  
1989-03-17,34.50,35.75,34.00,34.88,8485200,8.09

1989-03-16,35.00,35.50,34.50,35.25,6880000,8.18  
1989-03-15,35.25,35.50,34.75,35.00,3225600,8.12  
1989-03-14,35.00,35.50,34.88,35.25,5796800,8.18  
1989-03-13,35.00,35.50,34.75,35.00,4683600,8.12  
1989-03-10,34.50,35.00,34.25,35.00,3684400,8.12  
1989-03-09,35.25,35.75,34.50,34.50,4768800,8.00  
1989-03-08,35.63,36.25,35.25,35.25,7727600,8.18  
1989-03-07,35.50,36.00,35.00,35.75,9327600,8.29  
1989-03-06,35.00,35.88,34.50,35.50,6028800,8.23  
1989-03-03,35.25,35.25,34.00,34.75,13854400,8.06  
1989-03-02,35.75,36.25,34.75,35.00,13440800,8.12  
1989-03-01,36.25,36.50,35.50,36.00,6096400,8.35  
1989-02-28,36.50,36.75,36.00,36.25,6290000,8.41  
1989-02-27,36.00,36.50,35.75,36.50,4151200,8.47  
1989-02-24,37.00,37.00,36.00,36.00,5452000,8.35  
1989-02-23,36.50,37.00,36.25,36.75,3409200,8.52  
1989-02-22,37.25,37.50,36.50,36.75,8529200,8.52  
1989-02-21,36.88,37.75,36.75,37.50,6808800,8.70  
1989-02-17,36.25,37.00,36.25,36.75,4180800,8.52  
1989-02-16,36.25,37.25,36.00,36.38,9138800,8.41  
1989-02-15,35.75,36.25,35.50,36.25,11812400,8.38  
1989-02-14,36.88,37.00,35.25,35.75,31843200,8.27  
1989-02-13,36.75,37.25,36.75,37.00,8422000,8.56  
1989-02-10,38.25,38.25,37.00,37.25,12441200,8.62  
1989-02-09,38.25,39.00,38.00,38.25,5756400,8.85  
1989-02-08,39.00,39.50,38.00,38.25,5612000,8.85  
1989-02-07,38.25,39.25,38.25,39.00,5908800,9.02  
1989-02-06,39.50,39.50,38.25,38.50,4174400,8.91  
1989-02-03,40.00,40.25,39.00,39.25,6406400,9.08  
1989-02-02,39.50,40.25,39.25,39.75,16927600,9.19  
1989-02-01,37.75,39.63,37.38,39.25,17420000,9.08  
1989-01-31,37.25,37.75,36.75,37.75,16442000,8.73  
1989-01-30,37.63,38.00,37.25,37.38,20961200,8.65  
1989-01-27,38.25,39.25,36.25,37.63,75976400,8.70  
1989-01-26,40.75,42.13,40.63,41.75,10203600,9.66  
1989-01-25,41.75,42.00,41.00,41.50,3963200,9.60  
1989-01-24,41.00,41.75,40.75,41.63,7983200,9.63  
1989-01-23,40.75,41.25,40.75,41.00,6452000,9.48  
1989-01-20,40.50,41.50,40.25,41.00,6207600,9.48  
1989-01-19,40.50,41.00,40.00,40.50,9155200,9.37  
1989-01-18,40.75,41.13,39.50,39.75,17440800,9.19  
1989-01-17,43.25,43.50,40.00,40.38,27033600,9.34  
1989-01-16,43.25,44.00,43.00,43.75,6033200,10.12  
1989-01-13,42.75,43.50,42.38,43.25,6928000,10.00  
1989-01-12,42.25,43.00,42.00,42.75,5373200,9.89  
1989-01-11,42.25,42.50,41.25,42.13,5585200,9.74  
1989-01-10,42.50,42.88,41.50,42.63,3695600,9.86  
1989-01-09,43.00,43.13,42.25,43.00,2850800,9.95

1989-01-06,42.25,43.50,42.25,42.63,7103600,9.86  
1989-01-05,42.00,43.25,41.25,42.25,10985200,9.77  
1989-01-04,40.75,42.13,40.50,42.00,8575200,9.71  
1989-01-03,40.25,40.50,40.00,40.38,3578800,9.34  
1988-12-30,40.50,41.25,40.25,40.25,2938800,9.31  
1988-12-29,40.25,40.75,40.25,40.50,4212000,9.37  
1988-12-28,40.50,40.75,39.75,40.25,1841200,9.31  
1988-12-27,41.00,41.50,40.50,40.50,2155200,9.37  
1988-12-23,41.00,41.38,41.00,41.13,1475600,9.51  
1988-12-22,41.75,42.00,40.75,41.00,3802000,9.48  
1988-12-21,41.00,42.00,41.00,41.75,8642400,9.66  
1988-12-20,41.00,41.50,40.63,41.00,9810800,9.48  
1988-12-19,40.25,41.00,40.00,40.75,8373600,9.43  
1988-12-16,39.50,40.50,39.25,40.13,6572000,9.28  
1988-12-15,40.00,40.50,39.25,39.50,4032000,9.14  
1988-12-14,38.50,40.00,38.50,39.75,6916800,9.19  
1988-12-13,38.50,38.75,38.25,38.75,4386400,8.96  
1988-12-12,39.25,39.50,38.50,38.50,4215600,8.91  
1988-12-09,39.25,39.50,38.75,39.13,1608800,9.05  
1988-12-08,39.25,39.25,38.75,39.13,2125600,9.05  
1988-12-07,39.00,39.50,38.75,39.38,3518800,9.11  
1988-12-06,39.25,39.75,39.00,39.50,3763200,9.14  
1988-12-05,39.50,40.00,38.75,39.50,5534400,9.14  
1988-12-02,38.25,39.88,38.00,39.25,11940000,9.08  
1988-12-01,37.75,39.00,37.50,38.75,7586800,8.96  
1988-11-30,36.75,38.00,36.75,37.63,6013600,8.70  
1988-11-29,36.50,36.75,36.00,36.75,3326400,8.50  
1988-11-28,36.50,36.75,36.00,36.50,4986800,8.44  
1988-11-25,36.25,36.75,36.00,36.50,1727600,8.44  
1988-11-23,35.75,37.00,35.50,36.88,6733200,8.53  
1988-11-22,36.50,36.88,36.00,36.13,5299200,8.36  
1988-11-21,37.50,37.75,36.25,36.63,7928000,8.47  
1988-11-18,38.50,38.50,38.00,38.00,2066400,8.77  
1988-11-17,38.00,38.50,38.00,38.25,2841200,8.82  
1988-11-16,39.00,39.25,37.75,38.00,5280000,8.77  
1988-11-15,39.00,39.25,38.75,39.00,2866800,9.00  
1988-11-14,38.75,39.00,38.25,38.88,3046400,8.97  
1988-11-11,39.00,39.63,38.50,38.50,3882400,8.88  
1988-11-10,39.50,39.75,39.00,39.50,3573200,9.11  
1988-11-09,38.25,39.38,38.00,39.25,7206800,9.05  
1988-11-08,37.50,38.75,37.38,38.50,5540800,8.88  
1988-11-07,37.25,37.75,37.00,37.50,6093600,8.65  
1988-11-04,36.75,38.00,36.75,37.75,5500000,8.71  
1988-11-03,37.25,37.50,36.75,37.13,8670000,8.57  
1988-11-02,38.25,38.25,36.75,37.25,7451200,8.59  
1988-11-01,38.50,38.75,37.75,38.00,5138800,8.77  
1988-10-31,38.75,38.75,37.50,38.63,8695200,8.91  
1988-10-28,39.00,39.50,38.50,38.50,3026800,8.88



1988-10-27,38.75,39.25,38.25,39.00,5138000,9.00  
1988-10-26,40.00,40.00,38.50,39.25,6751200,9.05  
1988-10-25,40.25,40.25,39.75,39.88,3043600,9.20  
1988-10-24,41.25,41.25,39.63,40.00,4842400,9.23  
1988-10-21,41.25,41.75,40.75,41.00,4422400,9.46  
1988-10-20,40.00,41.63,40.00,41.50,6215200,9.57  
1988-10-19,39.75,40.75,39.50,40.00,9918000,9.23  
1988-10-18,39.00,39.50,38.25,39.38,5100000,9.08  
1988-10-17,38.50,39.00,38.25,38.50,3360800,8.88  
1988-10-14,39.50,39.50,38.13,38.75,5625200,8.94  
1988-10-13,38.50,39.75,38.50,39.00,5892400,9.00  
1988-10-12,38.50,39.00,38.00,38.75,4763600,8.94  
1988-10-11,38.25,39.50,38.25,39.00,6964400,9.00  
1988-10-10,39.50,39.75,37.50,38.50,11880000,8.88  
1988-10-07,39.00,39.75,38.38,39.75,16355200,9.17  
1988-10-06,40.50,40.88,39.25,39.75,6009200,9.17  
1988-10-05,41.25,41.75,40.50,40.88,4400000,9.43  
1988-10-04,42.25,42.75,41.13,41.50,1847600,9.57  
1988-10-03,43.00,43.25,42.00,42.50,3243200,9.80  
1988-09-30,44.00,44.00,43.25,43.25,3338800,9.98  
1988-09-29,43.75,44.25,43.50,44.00,3804400,10.15  
1988-09-28,43.50,44.13,43.25,43.50,3038800,10.04  
1988-09-27,42.50,43.50,42.50,43.38,5832400,10.01  
1988-09-26,43.75,44.00,42.50,42.75,3124400,9.86  
1988-09-23,43.50,44.25,43.50,43.75,3638000,10.09  
1988-09-22,43.00,44.00,42.75,44.00,5203600,10.15  
1988-09-21,41.75,43.00,41.50,42.75,3274800,9.86  
1988-09-20,41.75,42.25,41.38,41.50,3682400,9.57  
1988-09-19,42.00,42.25,41.25,41.75,3296400,9.63  
1988-09-16,41.50,42.75,41.38,42.25,4431200,9.75  
1988-09-15,42.00,42.75,41.50,41.63,5920000,9.60  
1988-09-14,41.75,42.38,41.50,42.00,8520800,9.69  
1988-09-13,40.25,41.25,40.00,41.00,4293600,9.46  
1988-09-12,41.00,41.75,40.13,41.00,5290800,9.46  
1988-09-09,38.75,41.00,37.75,40.50,8393200,9.34  
1988-09-08,38.25,39.50,37.75,38.75,7403200,8.94  
1988-09-07,39.00,39.50,37.75,38.25,6417600,8.82  
1988-09-06,40.00,40.00,38.75,38.88,5125200,8.97  
1988-09-02,39.50,40.00,39.00,39.75,6661200,9.17  
1988-09-01,39.75,39.75,38.50,38.88,8818800,8.97  
1988-08-31,41.00,41.13,39.50,39.88,8493600,9.20  
1988-08-30,40.75,41.00,40.00,40.88,1809200,9.43  
1988-08-29,40.75,41.00,40.50,40.88,2046400,9.43  
1988-08-26,40.00,40.75,40.00,40.25,1453200,9.29  
1988-08-25,40.25,40.50,39.25,40.13,4560000,9.26  
1988-08-24,39.75,40.75,39.50,40.75,4482000,9.40  
1988-08-23,39.75,40.25,39.25,39.50,5843200,9.11  
1988-08-22,40.25,40.75,39.50,39.75,6100000,9.17

1988-08-19,42.50,42.75,40.50,40.75,8120000,9.40  
1988-08-18,42.00,43.00,41.75,42.50,2648000,9.80  
1988-08-17,42.50,42.75,41.75,42.00,4252400,9.69  
1988-08-16,41.00,43.25,40.75,42.50,4397600,9.80  
1988-08-15,42.25,42.25,40.50,41.25,5971200,9.52  
1988-08-12,43.00,43.00,42.25,42.50,2771200,9.79  
1988-08-11,42.25,43.25,42.00,43.25,3803200,9.96  
1988-08-10,43.75,43.75,41.75,41.88,5300800,9.64  
1988-08-09,44.00,44.25,43.00,43.50,6090800,10.02  
1988-08-08,44.50,44.75,44.00,44.00,1085600,10.13  
1988-08-05,44.50,45.00,44.25,44.25,1881200,10.19  
1988-08-04,44.75,45.25,44.50,44.63,2473200,10.28  
1988-08-03,44.75,44.75,44.00,44.75,3980800,10.30  
1988-08-02,45.00,45.50,44.50,44.63,4338000,10.28  
1988-08-01,44.50,45.75,44.25,45.00,3085600,10.36  
1988-07-29,43.25,44.50,43.00,44.38,5697600,10.22  
1988-07-28,42.50,43.00,42.25,42.63,3326800,9.82  
1988-07-27,42.75,43.25,42.50,42.75,4162400,9.84  
1988-07-26,42.75,43.25,42.25,42.75,3640800,9.84  
1988-07-25,42.75,43.25,42.25,42.75,3794400,9.84  
1988-07-22,43.00,43.25,42.50,42.50,3724800,9.79  
1988-07-21,43.75,44.00,42.75,43.00,5323600,9.90  
1988-07-20,44.75,45.00,44.00,44.25,4293600,10.19  
1988-07-19,45.00,45.50,43.88,44.75,4372400,10.30  
1988-07-18,45.38,46.00,45.25,45.50,4061200,10.48  
1988-07-15,45.00,45.50,44.75,45.00,2968000,10.36  
1988-07-14,44.75,45.25,44.50,45.00,2245200,10.36  
1988-07-13,44.75,45.00,44.25,44.75,4132000,10.30  
1988-07-12,45.00,45.25,44.50,44.75,3605600,10.30  
1988-07-11,45.50,45.50,44.88,45.13,2646400,10.39  
1988-07-08,45.50,46.00,45.00,45.25,3766400,10.42  
1988-07-07,46.50,46.50,45.25,45.88,3778000,10.56  
1988-07-06,47.13,47.50,46.13,46.50,5608800,10.71  
1988-07-05,46.50,47.25,46.13,47.25,3736400,10.88  
1988-07-01,46.50,46.88,46.25,46.50,3385600,10.71  
1988-06-30,46.25,46.75,46.00,46.25,4104800,10.65  
1988-06-29,46.00,46.75,45.75,46.38,5125200,10.68  
1988-06-28,44.75,46.25,44.50,46.25,5809200,10.65  
1988-06-27,44.50,45.38,44.50,44.50,3001200,10.25  
1988-06-24,45.00,45.50,44.50,45.00,2684400,10.36  
1988-06-23,45.75,45.75,45.00,45.00,2566400,10.36  
1988-06-22,45.50,45.88,45.00,45.63,6998000,10.51  
1988-06-21,44.00,45.00,43.88,44.88,4422000,10.33  
1988-06-20,44.38,44.75,44.00,44.13,2811200,10.16  
1988-06-17,44.75,44.75,44.25,44.75,3410800,10.30  
1988-06-16,45.00,45.25,44.25,44.50,3854400,10.25  
1988-06-15,45.25,45.75,45.00,45.75,4360000,10.53  
1988-06-14,45.25,46.00,45.00,45.25,10445600,10.42

1988-06-13,45.00,45.25,44.25,45.00,5320000,10.36  
1988-06-10,43.50,44.75,43.00,44.50,6320000,10.25  
1988-06-09,45.00,45.25,43.25,43.50,9640000,10.02  
1988-06-08,44.25,45.50,44.00,45.00,9240000,10.36  
1988-06-07,43.75,45.25,43.50,44.00,11120000,10.13  
1988-06-06,42.75,44.00,42.75,44.00,5880000,10.13  
1988-06-03,41.75,43.25,41.75,43.00,6280000,9.90  
1988-06-02,42.00,42.50,41.50,41.75,4760000,9.61  
1988-06-01,41.50,42.50,41.25,42.50,8200000,9.79  
1988-05-31,40.00,41.50,39.75,41.50,4400000,9.56  
1988-05-27,39.25,40.00,39.00,39.75,3020000,9.15  
1988-05-26,38.50,39.50,38.50,39.38,3076800,9.07  
1988-05-25,39.00,39.75,38.50,38.50,4840000,8.87  
1988-05-24,38.00,39.00,37.75,38.88,5080000,8.95  
1988-05-23,38.50,38.88,37.38,38.00,6560000,8.75  
1988-05-20,39.25,39.50,38.75,38.75,2941200,8.92  
1988-05-19,39.50,39.75,38.50,39.00,8920000,8.98  
1988-05-18,40.50,40.75,39.50,39.75,6240000,9.15  
1988-05-17,41.50,42.00,40.25,40.50,6920000,9.33  
1988-05-16,40.50,41.38,40.00,41.25,2686800,9.50  
1988-05-13,40.25,40.50,40.00,40.50,2566800,9.31  
1988-05-12,39.50,40.25,39.50,39.75,2965600,9.13  
1988-05-11,40.25,40.75,39.50,39.50,6240000,9.08  
1988-05-10,40.50,41.00,40.25,40.88,3439200,9.39  
1988-05-09,41.25,41.25,40.50,40.75,2732000,9.36  
1988-05-06,41.63,41.75,41.25,41.25,3835600,9.48  
1988-05-05,42.00,42.25,41.50,41.75,2536800,9.59  
1988-05-04,41.88,43.13,41.75,42.00,8000000,9.65  
1988-05-03,41.00,42.25,40.75,41.75,4440000,9.59  
1988-05-02,40.75,41.25,40.50,41.00,2944400,9.42  
1988-04-29,41.25,41.50,40.50,41.00,3222000,9.42  
1988-04-28,41.75,42.00,41.25,41.38,3553600,9.51  
1988-04-27,41.75,42.00,41.50,41.75,4520000,9.59  
1988-04-26,41.00,41.75,40.75,41.50,6280000,9.54  
1988-04-25,40.25,41.00,40.00,40.88,5360000,9.39  
1988-04-22,39.75,40.25,39.50,40.13,3846800,9.22  
1988-04-21,40.38,40.50,39.00,39.50,6360000,9.08  
1988-04-20,40.25,40.50,39.25,39.75,7680000,9.13  
1988-04-19,40.13,41.50,40.13,40.25,7596400,9.25  
1988-04-18,39.75,40.75,39.25,40.00,6080000,9.19  
1988-04-15,39.75,40.00,38.50,39.50,8320000,9.08  
1988-04-14,40.50,41.50,39.00,39.50,6720000,9.08  
1988-04-13,41.75,42.00,41.00,41.25,5120000,9.48  
1988-04-12,41.75,42.25,41.25,41.75,6200000,9.59  
1988-04-11,41.75,42.00,41.00,41.50,5320000,9.54  
1988-04-08,40.75,41.75,39.75,41.00,7240000,9.42  
1988-04-07,41.75,42.38,40.75,40.75,5840000,9.36  
1988-04-06,39.50,41.75,39.00,41.75,6800000,9.59

1988-04-05,39.25,39.50,38.50,39.25,5280000,9.02  
1988-04-04,39.75,40.50,38.50,38.75,6480000,8.91  
1988-03-31,39.75,40.50,39.25,40.00,7760000,9.19  
1988-03-30,40.75,41.25,38.75,39.50,13280000,9.08  
1988-03-29,41.50,42.00,40.63,41.00,7640000,9.42  
1988-03-28,40.00,41.75,39.50,41.50,6160000,9.54  
1988-03-25,40.75,41.25,40.00,40.13,4680000,9.22  
1988-03-24,41.75,42.50,40.00,40.88,11440000,9.39  
1988-03-23,44.00,44.00,41.88,42.50,7480000,9.77  
1988-03-22,44.00,44.50,43.25,44.00,4265600,10.11  
1988-03-21,44.38,44.63,43.00,43.88,8120000,10.08  
1988-03-18,45.00,45.50,44.25,44.75,9720000,10.28  
1988-03-17,46.25,46.50,44.75,45.00,9320000,10.34  
1988-03-16,44.88,46.38,44.50,46.13,4240000,10.60  
1988-03-15,46.00,46.25,44.75,45.00,6480000,10.34  
1988-03-14,45.75,46.50,45.50,46.25,3518000,10.63  
1988-03-11,45.50,45.75,44.50,45.75,5640000,10.51  
1988-03-10,47.00,47.25,45.25,45.25,6320000,10.40  
1988-03-09,46.25,47.25,46.25,46.75,4800000,10.74  
1988-03-08,46.75,47.00,46.00,46.25,5160000,10.63  
1988-03-07,46.75,47.75,46.50,46.88,7400000,10.77  
1988-03-04,46.00,47.00,45.50,46.88,7480000,10.77  
1988-03-03,44.50,47.00,44.50,46.50,16920000,10.69  
1988-03-02,43.75,45.00,43.50,44.75,10440000,10.28  
1988-03-01,43.25,43.50,42.50,43.25,6120000,9.94  
1988-02-29,41.75,43.25,41.50,43.00,4000000,9.88  
1988-02-26,42.00,42.25,41.25,41.75,2952400,9.59  
1988-02-25,42.00,43.00,41.75,41.75,6400000,9.59  
1988-02-24,42.75,43.00,42.00,42.25,5200000,9.71  
1988-02-23,43.25,43.75,42.25,42.75,7880000,9.82  
1988-02-22,41.50,43.63,41.50,43.25,7160000,9.94  
1988-02-19,41.75,42.00,41.50,41.75,3242400,9.59  
1988-02-18,41.63,42.75,41.50,41.75,5120000,9.59  
1988-02-17,41.25,42.50,41.25,41.88,9160000,9.62  
1988-02-16,41.00,41.25,40.00,41.25,5520000,9.48  
1988-02-12,40.63,41.50,40.50,41.00,4920000,9.42  
1988-02-11,41.00,41.25,40.25,40.63,5280000,9.32  
1988-02-10,39.75,41.50,39.75,41.00,8160000,9.40  
1988-02-09,39.00,39.88,38.75,39.75,4160000,9.12  
1988-02-08,38.50,39.25,37.75,38.75,7280000,8.89  
1988-02-05,40.00,40.38,38.50,38.63,4720000,8.86  
1988-02-04,39.50,40.13,39.00,39.75,7120000,9.12  
1988-02-03,41.00,41.25,39.25,39.50,8080000,9.06  
1988-02-02,41.50,41.88,40.50,41.25,6840000,9.46  
1988-02-01,41.75,42.50,41.38,41.75,7120000,9.58  
1988-01-29,41.50,41.75,40.25,41.50,9480000,9.52  
1988-01-28,40.00,41.50,39.75,41.25,8320000,9.46  
1988-01-27,40.25,40.50,38.75,39.75,9240000,9.12

1988-01-26,40.75,41.00,39.25,39.75,5120000,9.12  
1988-01-25,39.50,41.50,39.50,40.88,7160000,9.38  
1988-01-22,40.50,40.75,38.25,39.25,15920000,9.00  
1988-01-21,40.50,40.75,39.38,40.13,17640000,9.20  
1988-01-20,43.00,43.00,38.25,39.75,24320000,9.12  
1988-01-19,42.25,43.25,41.38,42.75,9800000,9.80  
1988-01-18,43.00,43.00,42.00,42.75,4480000,9.80  
1988-01-15,43.50,45.00,42.50,42.88,12280000,9.83  
1988-01-14,42.75,42.88,42.00,42.25,4720000,9.69  
1988-01-13,42.00,43.25,41.13,42.25,7560000,9.69  
1988-01-12,43.00,43.50,39.75,42.00,14320000,9.63  
1988-01-11,40.00,42.75,39.75,42.50,14440000,9.75  
1988-01-08,44.50,45.25,39.50,40.00,17360000,9.17  
1988-01-07,43.50,44.75,42.50,44.50,7600000,10.21  
1988-01-06,45.00,45.00,43.75,43.75,9600000,10.03  
1988-01-05,46.00,46.25,44.25,44.63,11040000,10.24  
1988-01-04,42.75,44.75,42.25,44.75,11800000,10.26  
1987-12-31,42.50,43.00,41.88,42.00,4200000,9.63  
1987-12-30,42.50,43.75,42.50,43.38,5560000,9.95  
1987-12-29,40.50,42.25,40.25,42.13,4240000,9.66  
1987-12-28,42.25,42.50,39.50,40.25,8200000,9.23  
1987-12-24,42.00,43.00,41.75,42.63,2508000,9.78  
1987-12-23,41.75,42.75,41.25,42.25,6120000,9.69  
1987-12-22,41.75,41.75,40.50,41.50,4600000,9.52  
1987-12-21,40.50,41.75,40.25,41.75,6720000,9.58  
1987-12-18,39.50,41.25,39.25,40.50,10800000,9.29  
1987-12-17,40.50,40.75,39.25,39.25,11640000,9.00  
1987-12-16,37.75,39.75,37.25,39.25,11800000,9.00  
1987-12-15,37.75,38.25,37.00,37.50,10680000,8.60  
1987-12-14,34.50,37.50,34.25,37.25,12200000,8.54  
1987-12-11,34.75,34.75,33.50,34.00,4360000,7.80  
1987-12-10,33.75,36.00,33.25,34.75,9880000,7.97  
1987-12-09,34.50,36.25,33.88,35.00,6400000,8.03  
1987-12-08,33.50,34.88,33.25,34.50,9080000,7.91  
1987-12-07,31.00,33.25,31.00,33.00,7280000,7.57  
1987-12-04,30.25,31.25,29.75,30.75,8720000,7.05  
1987-12-03,33.00,33.38,29.75,30.50,11400000,7.00  
1987-12-02,33.25,33.50,32.50,32.50,5080000,7.45  
1987-12-01,33.50,34.00,32.75,33.25,6480000,7.63  
1987-11-30,33.75,34.50,30.50,33.00,14880000,7.57  
1987-11-27,36.25,36.50,34.75,35.00,2526800,8.03  
1987-11-25,37.00,37.00,36.00,36.50,3311200,8.37  
1987-11-24,36.75,37.75,36.13,37.00,7040000,8.49  
1987-11-23,35.50,36.25,34.75,36.25,3500000,8.31  
1987-11-20,34.00,36.00,33.25,35.50,8960000,8.14  
1987-11-19,36.50,36.50,34.00,34.50,6520000,7.91  
1987-11-18,35.75,36.50,34.50,36.25,9480000,8.31  
1987-11-17,36.75,37.00,35.00,35.00,9600000,8.03

1987-11-16,37.75,38.50,36.50,36.75,6600000,8.41  
1987-11-13,39.25,39.50,37.00,37.25,5520000,8.52  
1987-11-12,38.50,40.00,38.38,38.75,8800000,8.87  
1987-11-11,37.25,38.25,36.75,37.25,6640000,8.52  
1987-11-10,36.50,37.50,36.00,36.25,8280000,8.30  
1987-11-09,37.00,37.50,36.25,37.25,7520000,8.52  
1987-11-06,38.25,39.50,37.00,37.75,6680000,8.64  
1987-11-05,36.25,38.75,36.25,38.00,9120000,8.70  
1987-11-04,35.50,37.25,34.75,36.00,8360000,8.24  
1987-11-03,38.00,38.50,34.25,36.25,11200000,8.30  
1987-11-02,38.75,39.50,37.50,38.75,6720000,8.87  
1987-10-30,40.00,43.00,38.50,38.63,15040000,8.84  
1987-10-29,34.25,40.00,32.25,39.50,11840000,9.04  
1987-10-28,30.75,33.75,29.25,33.50,14960000,7.67  
1987-10-27,29.50,32.25,29.00,30.25,16280000,6.92  
1987-10-26,34.50,35.00,27.62,28.00,11200000,6.41  
1987-10-23,35.75,36.50,34.25,35.50,7080000,8.12  
1987-10-22,39.25,40.50,36.00,36.75,13760000,8.41  
1987-10-21,38.50,42.00,38.00,40.50,19080000,9.27  
1987-10-20,38.50,42.00,32.63,34.50,20320000,7.90  
1987-10-19,48.25,48.25,35.50,36.50,17000000,8.35  
1987-10-16,52.25,53.00,47.50,48.25,15000000,11.04  
1987-10-15,53.25,54.50,51.75,52.00,12440000,11.90  
1987-10-14,53.75,54.00,52.00,53.25,9240000,12.19  
1987-10-13,54.50,54.75,53.25,54.50,5800000,12.47  
1987-10-12,54.25,54.38,51.75,53.25,7120000,12.19  
1987-10-09,54.25,55.50,54.00,54.13,5200000,12.39  
1987-10-08,55.50,56.00,53.25,54.25,5880000,12.42  
1987-10-07,55.50,55.75,54.25,55.50,8000000,12.70  
1987-10-06,59.50,59.50,55.50,55.75,7200000,12.76  
1987-10-05,58.50,59.75,57.75,59.25,4800000,13.56  
1987-10-02,58.25,58.75,57.50,58.50,3450000,13.39  
1987-10-01,56.75,58.75,56.50,58.25,4160000,13.33  
1987-09-30,54.25,57.00,54.25,56.50,4360000,12.93  
1987-09-29,56.00,56.00,54.25,54.50,6120000,12.47  
1987-09-28,57.50,58.75,55.50,55.75,7280000,12.76  
1987-09-25,56.75,58.00,56.50,57.50,3806800,13.16  
1987-09-24,55.25,57.88,55.25,56.50,6520000,12.93  
1987-09-23,54.13,56.00,53.75,55.25,9098800,12.64  
1987-09-22,50.50,54.25,50.25,54.13,5480000,12.39  
1987-09-21,51.75,52.75,50.25,50.25,4600000,11.50  
1987-09-18,52.00,52.25,51.38,51.75,2555600,11.84  
1987-09-17,52.00,52.25,51.00,52.00,2400000,11.90  
1987-09-16,51.75,52.63,51.25,51.75,6000000,11.84  
1987-09-15,53.00,53.00,51.50,51.75,3744800,11.84  
1987-09-14,54.75,55.25,52.75,53.00,2928000,12.13  
1987-09-11,54.00,55.50,52.75,54.50,4440000,12.47  
1987-09-10,53.25,54.50,53.13,53.75,5000000,12.30

1987-09-09,50.25,53.00,49.50,52.75,5640000,12.07  
1987-09-08,50.25,50.50,48.50,49.88,6280000,11.42  
1987-09-04,51.25,51.75,50.00,50.50,3891200,11.56  
1987-09-03,52.50,52.75,50.25,51.25,6600000,11.73  
1987-09-02,52.00,53.25,50.75,52.00,8200000,11.90  
1987-09-01,54.75,55.25,52.50,52.50,4960000,12.01  
1987-08-31,52.25,54.25,51.75,54.00,5360000,12.36  
1987-08-28,52.00,52.50,51.50,52.00,3434400,11.90  
1987-08-27,52.25,52.75,51.50,52.00,4440000,11.90  
1987-08-26,53.00,53.50,52.00,52.00,7000000,11.90  
1987-08-25,52.75,53.25,52.00,52.00,4880000,11.90  
1987-08-24,53.00,53.50,52.25,52.25,4320000,11.96  
1987-08-21,51.75,53.75,51.50,53.00,5000000,12.13  
1987-08-20,50.25,52.50,49.75,51.75,6280000,11.84  
1987-08-19,49.50,50.00,49.00,50.00,2404400,11.44  
1987-08-18,49.25,49.50,48.25,48.75,8480000,11.16  
1987-08-17,49.50,50.00,48.75,49.50,5200000,11.33  
1987-08-14,48.50,50.00,48.00,49.00,3758800,11.21  
1987-08-13,48.75,50.25,48.50,49.00,7000000,11.21  
1987-08-12,49.50,49.75,48.25,48.75,5760000,11.16  
1987-08-11,49.50,50.25,48.75,49.50,9680000,11.33  
1987-08-10,48.25,48.25,45.75,48.25,2800000,11.04  
1987-08-07,46.25,47.25,46.00,46.50,5440000,10.63  
1987-08-06,43.25,46.75,42.75,46.25,9000000,10.57  
1987-08-05,42.25,43.50,42.00,43.25,4640000,9.89  
1987-08-04,40.50,42.25,40.00,42.25,4320000,9.66  
1987-08-03,41.00,41.50,40.25,40.25,2275600,9.20  
1987-07-31,41.25,42.00,41.25,41.25,2613600,9.43  
1987-07-30,41.00,41.50,40.75,41.50,3727600,9.49  
1987-07-29,42.00,42.00,40.50,41.00,3534800,9.37  
1987-07-28,42.50,42.75,41.75,41.88,2660800,9.57  
1987-07-27,42.50,43.00,42.00,42.25,2035600,9.66  
1987-07-24,41.50,42.75,41.50,42.50,4200000,9.71  
1987-07-23,43.00,43.50,40.50,41.75,2685600,9.54  
1987-07-22,41.50,42.75,41.25,42.50,2185200,9.71  
1987-07-21,42.00,42.50,41.25,41.38,3966400,9.46  
1987-07-20,43.00,43.25,41.50,41.75,4440000,9.54  
1987-07-17,44.25,44.75,42.75,43.25,3300000,9.89  
1987-07-16,44.00,44.00,43.25,44.00,3388000,10.06  
1987-07-15,43.00,44.75,42.25,44.00,9680000,10.06  
1987-07-14,41.00,43.00,41.00,43.00,9200000,9.83  
1987-07-13,39.00,40.75,38.75,40.50,9120000,9.26  
1987-07-10,38.00,39.25,37.75,38.00,5600000,8.69  
1987-07-09,37.25,38.75,37.25,37.75,8560000,8.63  
1987-07-08,39.25,39.25,36.50,37.25,12200000,8.51  
1987-07-07,40.50,41.00,38.75,39.25,7280000,8.97  
1987-07-06,40.75,41.75,40.50,40.75,3060800,9.31  
1987-07-02,40.00,41.00,39.75,40.63,2931200,9.29

1987-07-01,40.75,40.75,39.75,40.00,3402000,9.14  
1987-06-30,40.50,41.00,39.75,40.50,5160000,9.26  
1987-06-29,40.50,40.75,40.00,40.75,3628000,9.31  
1987-06-26,40.75,41.50,40.00,40.50,4560000,9.26  
1987-06-25,42.00,42.50,40.50,40.50,4320000,9.26  
1987-06-24,41.50,43.25,40.50,42.00,4240000,9.60  
1987-06-23,42.00,42.13,40.75,41.25,2892000,9.43  
1987-06-22,41.25,42.25,40.88,42.00,6040000,9.60  
1987-06-19,41.50,41.75,40.38,41.00,4480000,9.37  
1987-06-18,40.25,41.75,39.50,41.50,8200000,9.49  
1987-06-17,41.50,42.50,40.00,40.50,10640000,9.26  
1987-06-16,41.50,41.75,38.00,41.50,12240000,9.49  
1987-06-15,79.00,79.50,77.50,78.50,9280000,8.97  
1987-06-12,79.00,79.75,78.75,79.00,3653600,9.03  
1987-06-11,78.50,80.00,78.00,79.00,4521600,9.03  
1987-06-10,78.75,80.25,78.00,78.50,5235200,8.97  
1987-06-09,77.50,79.50,77.50,78.50,4570400,8.97  
1987-06-08,77.75,78.00,76.75,77.75,7213600,8.89  
1987-06-05,78.75,78.75,77.75,77.75,4696000,8.89  
1987-06-04,78.00,78.75,77.00,78.50,5511200,8.97  
1987-06-03,77.25,79.50,77.25,77.75,6140000,8.89  
1987-06-02,77.50,78.00,77.00,77.25,4927200,8.83  
1987-06-01,79.50,79.50,77.50,77.75,2984000,8.89  
1987-05-29,80.25,80.50,79.00,79.00,3322400,9.03  
1987-05-28,79.50,80.25,78.50,80.00,5424000,9.14  
1987-05-27,78.00,80.25,77.50,79.50,6484000,9.09  
1987-05-26,74.50,78.00,74.00,78.00,5481600,8.91  
1987-05-22,75.00,75.50,73.75,74.12,3484000,8.47  
1987-05-21,74.75,75.75,74.50,74.50,6233600,8.51  
1987-05-20,73.00,75.00,72.50,74.50,10320000,8.51  
1987-05-19,75.75,75.75,72.62,73.25,8560000,8.37  
1987-05-18,78.25,78.50,75.50,75.75,8640000,8.66  
1987-05-15,79.25,79.25,78.00,78.25,5220000,8.94  
1987-05-14,78.25,79.50,78.25,79.25,5316000,9.06  
1987-05-13,75.75,78.62,75.50,78.50,11120000,8.97  
1987-05-12,76.00,76.50,75.00,75.50,9280000,8.63  
1987-05-11,77.00,79.50,76.75,77.00,7048800,8.80  
1987-05-08,80.50,81.00,79.00,79.00,6618400,9.01  
1987-05-07,79.75,81.00,79.75,80.25,6488800,9.16  
1987-05-06,80.50,82.25,79.25,80.00,10240000,9.13  
1987-05-05,80.00,80.75,78.00,80.25,8240000,9.16  
1987-05-04,79.50,80.25,79.00,79.75,5095200,9.10  
1987-05-01,79.50,80.00,78.75,80.00,4751200,9.13  
1987-04-30,78.00,80.00,77.75,79.25,9040000,9.04  
1987-04-29,77.25,79.75,77.00,77.75,10400000,8.87  
1987-04-28,75.75,77.87,75.50,77.00,11600000,8.79  
1987-04-27,74.25,75.25,73.25,75.00,13680000,8.56  
1987-04-24,75.75,76.50,74.50,74.75,9120000,8.53



1987-04-23,74.25,77.25,74.25,76.00,10880000,8.67  
1987-04-22,76.62,77.00,74.00,74.25,14400000,8.47  
1987-04-21,70.25,75.00,69.50,74.75,15440000,8.53  
1987-04-20,71.50,72.75,70.75,71.12,5353600,8.12  
1987-04-16,71.25,73.25,71.00,71.50,12400000,8.16  
1987-04-15,69.50,71.00,68.75,71.00,12480000,8.10  
1987-04-14,66.75,69.75,66.50,68.00,14560000,7.76  
1987-04-13,70.00,70.25,67.50,67.50,5101600,7.70  
1987-04-10,71.25,71.50,69.75,70.25,7791200,8.02  
1987-04-09,68.75,71.50,67.75,71.00,8480000,8.10  
1987-04-08,67.75,70.25,67.50,69.00,8240000,7.87  
1987-04-07,69.75,70.25,67.75,67.75,9280000,7.73  
1987-04-06,71.50,72.75,69.25,70.00,10320000,7.99  
1987-04-03,71.50,71.87,70.25,71.75,19280000,8.19  
1987-04-02,68.25,71.75,67.00,71.75,27760000,8.19  
1987-04-01,63.00,67.00,62.38,66.75,7792800,7.62  
1987-03-31,62.25,64.75,62.25,64.50,9760000,7.36  
1987-03-30,63.50,64.25,62.25,62.50,9280000,7.13  
1987-03-27,67.25,67.50,64.75,65.00,4817600,7.42  
1987-03-26,66.75,67.75,66.50,67.25,5146400,7.67  
1987-03-25,66.50,67.00,65.25,66.75,9760000,7.62  
1987-03-24,67.75,68.50,66.25,66.25,9600000,7.56  
1987-03-23,68.00,68.25,66.25,67.50,8800000,7.70  
1987-03-20,68.25,69.75,68.25,68.25,12400000,7.79  
1987-03-19,65.75,68.50,65.50,68.37,7396000,7.80  
1987-03-18,67.25,67.50,64.75,66.00,10800000,7.53  
1987-03-17,65.50,68.00,65.00,67.00,8720000,7.65  
1987-03-16,63.50,65.25,62.50,65.25,8800000,7.45  
1987-03-13,65.25,66.00,63.50,63.50,7067200,7.25  
1987-03-12,66.00,66.25,63.63,65.25,10800000,7.45  
1987-03-11,67.25,68.00,66.25,66.25,7826400,7.56  
1987-03-10,64.50,66.87,64.50,66.75,8720000,7.62  
1987-03-09,66.50,66.75,64.50,64.62,9120000,7.37  
1987-03-06,67.25,68.37,66.75,67.25,6332800,7.67  
1987-03-05,67.50,69.00,67.25,68.50,12080000,7.82  
1987-03-04,65.75,68.25,65.37,67.62,16000000,7.72  
1987-03-03,67.50,68.12,64.75,65.00,15600000,7.42  
1987-03-02,70.25,70.50,67.00,67.50,14160000,7.70  
1987-02-27,69.12,71.00,67.75,70.00,14480000,7.99  
1987-02-26,69.50,71.37,68.00,69.12,17840000,7.89  
1987-02-25,65.50,69.50,64.62,69.12,16240000,7.89  
1987-02-24,63.25,66.00,63.13,65.50,12720000,7.47  
1987-02-23,60.88,64.25,59.63,63.13,12560000,7.20  
1987-02-20,62.38,62.50,60.63,61.25,6813600,6.99  
1987-02-19,63.50,63.50,61.75,62.38,11200000,7.12  
1987-02-18,66.62,67.37,63.38,63.50,16800000,7.25  
1987-02-17,62.13,66.50,61.88,66.37,14640000,7.57  
1987-02-13,58.63,62.50,58.00,62.13,18240000,7.09

1987-02-12,57.00,59.88,57.00,58.63,25360000,6.69  
1987-02-11,53.00,56.75,52.75,56.50,12240000,6.45  
1987-02-10,52.50,52.75,51.63,52.75,5977600,6.02  
1987-02-09,52.88,53.38,52.25,52.63,5611200,6.01  
1987-02-06,54.00,54.00,52.88,54.00,10480000,6.16  
1987-02-05,55.00,55.13,53.13,53.88,12160000,6.15  
1987-02-04,55.50,55.50,54.38,55.00,7791200,6.28  
1987-02-03,56.00,56.13,54.75,55.50,6412800,6.33  
1987-02-02,55.50,56.00,54.25,55.88,8800000,6.38  
1987-01-30,54.00,55.88,52.63,55.50,14640000,6.33  
1987-01-29,55.88,57.25,53.38,54.13,19920000,6.18  
1987-01-28,53.00,55.75,52.13,55.38,14800000,6.32  
1987-01-27,50.00,53.13,49.88,52.75,13520000,6.02  
1987-01-26,50.00,50.50,49.50,49.75,12560000,5.68  
1987-01-23,52.50,53.00,50.25,50.25,16400000,5.73  
1987-01-22,48.88,52.63,48.50,52.50,16880000,5.99  
1987-01-21,50.88,51.13,49.00,49.00,19040000,5.59  
1987-01-20,55.00,55.75,51.50,51.63,27680000,5.89  
1987-01-19,48.75,53.13,47.88,53.13,12960000,6.06  
1987-01-16,50.00,50.00,47.75,48.75,14560000,5.56  
1987-01-15,48.25,51.38,48.00,49.88,19520000,5.69  
1987-01-14,44.63,48.25,44.50,48.13,18000000,5.49  
1987-01-13,45.13,45.38,44.63,44.63,7584800,5.09  
1987-01-12,45.50,45.75,44.75,45.50,8320000,5.19  
1987-01-09,44.75,45.75,44.38,45.38,8560000,5.18  
1987-01-08,44.75,45.13,44.50,44.75,10400000,5.11  
1987-01-07,43.88,44.88,43.63,44.75,15520000,5.11  
1987-01-06,43.13,44.00,42.63,43.75,11600000,4.99  
1987-01-05,41.25,43.25,41.00,43.00,8560000,4.91  
1987-01-02,40.38,41.13,40.13,40.88,4360000,4.66  
1986-12-31,41.00,41.38,40.38,40.50,4742400,4.62  
1986-12-30,40.50,41.50,40.38,41.00,5297600,4.68  
1986-12-29,41.00,41.13,40.25,40.50,4224800,4.62  
1986-12-26,41.88,41.88,41.00,41.00,3215200,4.68  
1986-12-24,42.00,42.13,41.63,41.88,3453600,4.78  
1986-12-23,42.25,42.38,41.88,42.13,8720000,4.81  
1986-12-22,42.00,42.50,41.75,42.13,5887200,4.81  
1986-12-19,41.38,42.50,41.38,42.13,7149600,4.81  
1986-12-18,41.13,41.88,40.75,41.38,6258400,4.72  
1986-12-17,42.38,42.50,40.88,41.25,5417600,4.71  
1986-12-16,41.63,42.50,41.63,42.50,5464000,4.85  
1986-12-15,41.00,41.75,40.38,41.75,7481600,4.76  
1986-12-12,42.88,43.00,41.25,41.25,6451200,4.71  
1986-12-11,43.63,43.88,42.63,42.88,8080000,4.89  
1986-12-10,42.38,43.75,42.00,43.50,8720000,4.96  
1986-12-09,42.38,42.63,41.13,42.38,10800000,4.84  
1986-12-08,43.63,43.88,42.38,42.50,12400000,4.85  
1986-12-05,42.63,43.75,42.50,43.75,9360000,4.99

1986-12-04,42.63,42.75,42.00,42.50,9600000,4.85  
1986-12-03,41.63,43.00,41.50,42.75,12000000,4.88  
1986-12-02,40.50,41.75,40.00,41.50,13200000,4.74  
1986-12-01,40.00,40.13,39.13,40.13,12400000,4.58  
1986-11-28,40.50,40.63,39.63,40.00,7897600,4.56  
1986-11-26,40.13,41.25,40.00,40.50,18080000,4.62  
1986-11-25,38.00,40.38,38.00,40.25,30320000,4.59  
1986-11-24,36.25,38.13,36.00,38.00,13440000,4.34  
1986-11-21,35.25,36.25,35.13,36.00,10240000,4.11  
1986-11-20,34.88,35.38,34.88,35.25,10560000,4.02  
1986-11-19,35.13,35.25,34.50,35.00,10800000,3.99  
1986-11-18,36.38,36.75,35.13,35.38,6115200,4.04  
1986-11-17,35.25,37.00,35.00,36.38,5071200,4.15  
1986-11-14,35.50,35.50,34.88,35.25,4840000,4.02  
1986-11-13,36.50,36.50,35.50,35.50,4928800,4.05  
1986-11-12,35.75,36.63,35.63,36.63,4700000,4.18  
1986-11-11,35.50,35.75,35.25,35.50,1809600,4.05  
1986-11-10,35.88,35.88,35.13,35.38,3793600,4.04  
1986-11-07,36.00,36.13,34.88,35.75,5153600,4.08  
1986-11-06,36.63,36.88,35.75,36.13,11840000,4.12  
1986-11-05,35.75,37.13,35.50,37.00,22320000,4.22  
1986-11-04,34.88,35.88,33.88,35.75,8800000,4.08  
1986-11-03,34.75,35.13,34.63,35.00,5457600,3.99  
1986-10-31,34.25,34.88,34.25,34.63,4338400,3.95  
1986-10-30,33.50,34.75,33.38,34.25,10480000,3.91  
1986-10-29,33.50,33.50,33.13,33.38,3057600,3.81  
1986-10-28,34.00,34.13,33.00,33.38,5102400,3.81  
1986-10-27,33.50,34.00,33.25,34.00,5422400,3.88  
1986-10-24,33.13,33.25,32.75,33.00,2718400,3.77  
1986-10-23,32.50,33.13,32.50,33.13,4441600,3.78  
1986-10-22,32.75,32.88,32.25,32.50,3382400,3.71  
1986-10-21,33.00,33.00,32.63,32.75,4096000,3.74  
1986-10-20,33.50,33.63,32.88,32.88,5344000,3.75  
1986-10-17,33.75,34.00,33.38,33.63,5460000,3.84  
1986-10-16,33.38,33.88,33.25,33.63,4876000,3.84  
1986-10-15,33.50,33.50,32.75,33.38,7367200,3.81  
1986-10-14,34.63,35.25,33.75,34.00,7164000,3.88  
1986-10-13,33.13,34.63,33.00,34.63,3582400,3.95  
1986-10-10,32.88,33.38,32.38,33.25,2096000,3.79  
1986-10-09,32.75,33.25,32.63,33.00,2820000,3.77  
1986-10-08,32.88,33.00,32.25,32.75,4021600,3.74  
1986-10-07,34.00,34.13,32.88,33.00,4577600,3.77  
1986-10-06,33.75,34.25,33.63,34.13,3384000,3.89  
1986-10-03,34.38,34.75,33.38,33.75,4997600,3.85  
1986-10-02,33.75,34.38,33.50,34.13,3401600,3.89  
1986-10-01,33.38,34.50,33.38,34.13,4988800,3.89  
1986-09-30,32.88,33.88,32.63,33.50,6488800,3.82  
1986-09-29,33.63,33.88,31.62,32.50,7475200,3.71

1986-09-26,34.13,34.38,33.88,34.25,2512800,3.91  
1986-09-25,35.13,35.25,33.63,34.50,6744800,3.94  
1986-09-24,36.13,36.38,34.00,35.13,6360000,4.01  
1986-09-23,35.25,36.25,35.13,36.13,12080000,4.12  
1986-09-22,33.50,35.38,33.50,35.25,8560000,4.02  
1986-09-19,33.75,33.88,33.25,33.63,4601600,3.84  
1986-09-18,34.25,34.50,33.75,34.00,3546400,3.88  
1986-09-17,34.88,35.00,34.25,34.25,4181600,3.91  
1986-09-16,33.13,35.13,32.50,34.88,8800000,3.98  
1986-09-15,32.25,33.13,32.00,33.13,7973600,3.78  
1986-09-12,32.50,32.75,31.75,31.75,8160000,3.62  
1986-09-11,34.63,34.75,32.50,32.63,4842400,3.72  
1986-09-10,35.63,35.88,34.75,35.00,2737600,3.99  
1986-09-09,34.63,36.00,34.63,35.75,5398400,4.08  
1986-09-08,35.00,35.00,33.63,34.75,4522400,3.97  
1986-09-05,35.63,35.88,35.00,35.13,3561600,4.01  
1986-09-04,35.00,35.50,34.75,35.50,7133600,4.05  
1986-09-03,34.75,34.88,34.13,34.75,4216000,3.97  
1986-09-02,37.13,37.13,34.75,34.75,8320000,3.97  
1986-08-29,37.63,38.00,36.88,37.00,4846400,4.22  
1986-08-28,37.00,38.00,36.88,37.75,7849600,4.31  
1986-08-27,36.63,37.00,36.25,37.00,5280000,4.22  
1986-08-26,36.38,36.88,36.38,36.63,4713600,4.18  
1986-08-25,36.50,36.88,36.38,36.38,4533600,4.15  
1986-08-22,35.88,36.63,35.88,36.25,4162400,4.14  
1986-08-21,36.13,36.38,35.75,35.75,6992800,4.08  
1986-08-20,35.25,36.50,35.25,36.25,6140000,4.14  
1986-08-19,35.13,35.50,34.63,35.38,4944000,4.04  
1986-08-18,35.75,35.88,35.00,35.38,5297600,4.04  
1986-08-15,36.13,36.50,35.63,35.75,4910400,4.08  
1986-08-14,36.00,37.00,36.00,36.00,8240000,4.11  
1986-08-13,34.25,36.25,34.25,36.00,16240000,4.11  
1986-08-12,33.38,34.38,33.38,34.25,8720000,3.91  
1986-08-11,31.87,33.50,31.75,33.50,6591200,3.82  
1986-08-08,31.87,32.38,31.62,31.62,3941600,3.61  
1986-08-07,31.12,32.63,31.12,31.75,6211200,3.62  
1986-08-06,32.13,32.13,31.00,31.12,6644800,3.55  
1986-08-05,31.62,32.38,31.50,32.13,4238400,3.67  
1986-08-04,31.37,31.50,30.62,31.50,4653600,3.59  
1986-08-01,31.12,31.75,31.12,31.37,5360000,3.58  
1986-07-31,30.50,31.50,30.50,31.25,10080000,3.57  
1986-07-30,31.25,31.50,30.00,30.50,9120000,3.48  
1986-07-29,32.25,32.25,30.75,31.25,21280000,3.57  
1986-07-28,33.88,34.00,32.25,32.38,8800000,3.69  
1986-07-25,33.13,34.00,33.00,34.00,7769600,3.88  
1986-07-24,34.25,34.38,33.00,33.13,5187200,3.78  
1986-07-23,34.63,34.63,34.13,34.13,6416000,3.89  
1986-07-22,33.50,34.63,33.25,34.63,8560000,3.95

1986-07-21,33.00,33.75,32.75,33.50,8160000,3.82  
1986-07-18,32.25,32.50,31.25,31.75,11040000,3.62  
1986-07-17,33.50,33.75,32.13,32.25,8960000,3.68  
1986-07-16,35.50,35.63,32.75,33.50,19280000,3.82  
1986-07-15,35.00,35.00,34.25,34.88,10640000,3.98  
1986-07-14,37.13,37.38,36.25,36.25,8480000,4.14  
1986-07-11,35.38,37.75,35.25,37.13,8000000,4.24  
1986-07-10,34.75,35.38,34.63,35.38,7453600,4.04  
1986-07-09,34.25,34.75,34.00,34.63,13040000,3.95  
1986-07-08,35.25,35.25,34.13,34.25,9782400,3.91  
1986-07-07,37.63,37.75,35.38,35.63,6501600,4.07  
1986-07-03,36.13,37.75,35.63,37.63,6509600,4.29  
1986-07-02,35.38,36.25,35.38,36.13,5202400,4.12  
1986-07-01,35.88,36.13,34.75,35.38,3140000,4.04  
1986-06-30,35.88,36.25,35.75,35.88,2553600,4.09  
1986-06-27,36.25,36.75,35.50,35.88,1811200,4.09  
1986-06-26,35.88,36.38,35.50,36.25,4184800,4.14  
1986-06-25,35.00,36.00,35.00,35.88,4755200,4.09  
1986-06-24,34.75,35.13,34.38,34.88,5088800,3.98  
1986-06-23,36.00,36.25,34.63,34.75,4196000,3.97  
1986-06-20,35.00,36.13,35.00,36.00,5761600,4.11  
1986-06-19,34.25,35.75,33.88,35.00,12347200,3.99  
1986-06-18,34.25,34.75,32.50,34.25,15381600,3.91  
1986-06-17,35.88,36.00,34.00,34.25,7936000,3.91  
1986-06-16,36.38,36.88,35.63,35.88,6222400,4.09  
1986-06-13,36.00,36.38,35.25,36.38,5144800,4.15  
1986-06-12,36.13,36.38,36.00,36.00,4638400,4.11  
1986-06-11,36.00,36.25,35.50,36.13,6692800,4.12  
1986-06-10,36.00,36.00,35.13,36.00,8827200,4.11  
1986-06-09,37.75,37.88,35.88,36.00,8835200,4.11  
1986-06-06,38.88,38.88,37.50,37.75,6342400,4.31  
1986-06-05,38.75,39.13,38.50,38.88,5282400,4.44  
1986-06-04,37.88,38.88,37.75,38.75,10747200,4.42  
1986-06-03,37.13,38.13,37.13,37.88,11661600,4.32  
1986-06-02,37.00,37.38,36.75,37.13,7158400,4.24  
1986-05-30,37.00,37.25,36.50,37.00,4591200,4.22  
1986-05-29,37.25,37.25,36.50,37.00,3635200,4.22  
1986-05-28,36.88,37.50,36.75,37.25,7418400,4.25  
1986-05-27,37.00,37.00,36.38,36.88,3058400,4.21  
1986-05-23,36.75,37.13,36.38,37.00,5013600,4.22  
1986-05-22,37.00,37.50,35.75,36.75,7895200,4.19  
1986-05-21,35.38,37.25,35.00,37.00,12418400,4.22  
1986-05-20,35.63,35.63,34.25,35.38,8811200,4.04  
1986-05-19,36.00,36.50,35.50,35.63,7506400,4.07  
1986-05-16,36.00,36.25,35.13,36.00,11424800,4.11  
1986-05-15,36.88,37.00,35.63,36.00,7964000,4.11  
1986-05-14,36.00,37.38,36.00,36.88,17277600,4.21  
1986-05-13,36.38,36.50,35.25,36.00,16876000,4.11

1986-05-12,33.38,36.63,33.25,36.38,14335200,4.15  
1986-05-09,33.00,33.63,32.75,33.38,7961600,3.81  
1986-05-08,31.50,33.13,31.50,33.00,8342400,3.77  
1986-05-07,32.63,32.88,31.25,31.50,7133600,3.59  
1986-05-06,32.25,33.25,32.25,32.63,7829600,3.72  
1986-05-05,30.50,32.50,30.50,32.13,5364000,3.67  
1986-05-02,30.25,31.00,30.12,30.50,3377600,3.48  
1986-05-01,30.25,30.25,29.75,30.25,9218400,3.45  
1986-04-30,31.25,31.62,30.25,30.25,4944000,3.45  
1986-04-29,32.00,32.25,26.87,31.25,4750400,3.57  
1986-04-28,32.25,32.75,31.75,32.00,5241600,3.65  
1986-04-25,31.37,32.63,31.37,32.25,9348800,3.68  
1986-04-24,29.62,31.50,29.50,31.37,16398400,3.58  
1986-04-23,29.87,30.37,29.37,29.62,9371200,3.38  
1986-04-22,30.37,31.25,29.62,29.87,11726400,3.41  
1986-04-21,29.87,30.75,29.87,30.37,9775200,3.47  
1986-04-18,29.00,29.87,28.75,29.75,8871200,3.39  
1986-04-17,28.25,29.12,28.00,29.00,9672800,3.31  
1986-04-16,27.37,28.50,27.37,28.25,7535200,3.22  
1986-04-15,26.87,27.50,26.87,27.37,4722400,3.12  
1986-04-14,27.00,27.25,26.75,26.87,3076000,3.07  
1986-04-11,27.25,27.50,27.00,27.00,2737600,3.08  
1986-04-10,27.12,27.37,26.87,27.25,3932800,3.11  
1986-04-09,27.62,27.75,26.87,27.12,4851200,3.09  
1986-04-08,27.25,27.75,27.25,27.62,6912800,3.15  
1986-04-07,26.75,27.50,26.25,27.25,4318400,3.11  
1986-04-04,27.00,27.00,26.62,26.75,4508800,3.05  
1986-04-03,27.25,27.62,26.87,27.00,7548800,3.08  
1986-04-02,27.25,27.37,26.25,27.25,11627200,3.11  
1986-04-01,28.25,28.25,27.00,27.25,7973600,3.11  
1986-03-31,28.25,28.50,28.00,28.25,6744800,3.22  
1986-03-27,28.25,29.00,28.25,28.25,7856000,3.22  
1986-03-26,27.87,28.75,27.87,28.25,7941600,3.22  
1986-03-25,26.75,27.87,26.75,27.87,10060000,3.18  
1986-03-24,27.62,27.62,26.37,26.75,10528800,3.05  
1986-03-21,28.25,28.75,27.50,27.62,9309600,3.15  
1986-03-20,28.00,29.62,28.00,28.25,32318400,3.22  
1986-03-19,26.87,27.25,26.37,26.50,6816000,3.02  
1986-03-18,26.00,27.25,25.87,26.87,8920000,3.07  
1986-03-17,26.00,26.00,25.37,26.00,4240000,2.97  
1986-03-14,24.75,26.25,24.75,26.12,13781600,2.98  
1986-03-13,24.75,25.00,24.37,24.75,4176000,2.82  
1986-03-12,24.87,25.12,24.75,24.75,3071200,2.82  
1986-03-11,24.62,24.87,24.50,24.87,3681600,2.84  
1986-03-10,24.75,24.87,24.62,24.62,2727200,2.81  
1986-03-07,25.37,25.37,24.75,24.75,3477600,2.82  
1986-03-06,25.25,25.75,25.12,25.37,3630400,2.89  
1986-03-05,24.62,25.50,24.25,25.25,6324000,2.88

1986-03-04,24.62,25.00,24.50,24.62,3217600,2.81  
1986-03-03,25.00,25.12,24.50,24.62,3912800,2.81  
1986-02-28,25.62,25.87,24.87,25.00,4507200,2.85  
1986-02-27,26.00,26.12,25.50,25.62,3873600,2.92  
1986-02-26,26.37,26.75,26.00,26.00,5907200,2.97  
1986-02-25,25.75,26.37,25.12,26.37,8041600,3.01  
1986-02-24,25.25,25.75,25.00,25.75,8840000,2.94  
1986-02-21,25.12,25.75,25.12,25.25,6771200,2.88  
1986-02-20,25.00,25.37,24.87,25.12,4951200,2.87  
1986-02-19,23.87,25.50,23.87,25.00,12871200,2.85  
1986-02-18,23.75,24.00,23.25,23.87,5295200,2.72  
1986-02-14,23.87,24.12,23.75,23.75,4928800,2.71  
1986-02-13,24.00,24.00,23.75,23.87,3944000,2.72  
1986-02-12,23.87,24.00,23.75,24.00,4770400,2.74  
1986-02-11,23.87,24.00,23.50,23.87,5504000,2.72  
1986-02-10,24.00,24.50,23.75,23.87,4036000,2.72  
1986-02-07,24.12,24.12,23.50,24.00,4656000,2.74  
1986-02-06,23.75,24.25,23.62,24.12,4835200,2.75  
1986-02-05,23.75,23.87,23.50,23.75,7042400,2.71  
1986-02-04,23.87,24.37,23.75,23.75,9298400,2.71  
1986-02-03,23.12,24.00,22.87,23.87,12512800,2.72  
1986-01-31,23.00,23.25,22.87,23.12,5317600,2.64  
1986-01-30,23.50,23.50,22.87,23.00,8493600,2.62  
1986-01-29,22.25,24.37,22.00,23.62,21064800,2.70  
1986-01-28,22.12,22.37,22.00,22.25,7949600,2.54  
1986-01-27,22.62,22.75,22.00,22.12,13955200,2.52  
1986-01-24,23.00,23.37,22.62,22.62,4044000,2.58  
1986-01-23,23.37,23.50,22.75,23.00,5624000,2.62  
1986-01-22,24.00,24.12,22.37,23.37,5144800,2.67  
1986-01-21,23.87,24.12,23.75,24.00,5464800,2.74  
1986-01-20,24.00,24.00,23.37,23.87,4590400,2.72  
1986-01-17,24.50,24.75,23.87,24.00,12344000,2.74  
1986-01-16,23.87,24.75,23.87,24.50,19132800,2.80  
1986-01-15,23.25,24.00,23.12,23.87,15126400,2.72  
1986-01-14,23.00,23.75,22.50,23.25,9772800,2.65  
1986-01-13,22.75,23.12,22.50,23.00,7701600,2.62  
1986-01-10,22.62,23.12,22.62,22.75,5491200,2.60  
1986-01-09,22.87,23.00,21.87,22.62,16002400,2.58  
1986-01-08,23.00,23.50,22.75,22.87,21711200,2.61  
1986-01-07,22.25,23.00,22.12,23.00,16807200,2.62  
1986-01-06,22.37,22.37,21.87,22.25,6636000,2.54  
1986-01-03,22.25,22.37,22.12,22.37,8653600,2.55  
1986-01-02,22.00,22.25,21.75,22.25,4212800,2.54  
1985-12-31,22.25,22.37,22.00,22.00,3158400,2.51  
1985-12-30,22.37,22.62,22.12,22.25,3848800,2.54  
1985-12-27,21.75,22.62,21.75,22.37,4427200,2.55  
1985-12-26,21.75,22.00,21.62,21.75,1658400,2.48  
1985-12-24,21.87,22.00,21.62,21.75,2344800,2.48

1985-12-23,22.37,22.50,21.62,21.87,5157600,2.50  
1985-12-20,22.50,22.75,22.25,22.37,7402400,2.55  
1985-12-19,22.25,22.75,22.12,22.50,9673600,2.57  
1985-12-18,21.37,22.87,21.37,22.25,20033600,2.54  
1985-12-17,20.87,21.00,20.37,20.62,3926400,2.35  
1985-12-16,20.00,21.25,20.00,20.87,10362400,2.38  
1985-12-13,20.00,20.25,19.75,20.00,8975200,2.28  
1985-12-12,19.87,20.25,19.87,20.00,4515200,2.28  
1985-12-11,19.50,20.12,19.50,19.75,8489600,2.25  
1985-12-10,19.37,19.62,19.25,19.50,7206400,2.23  
1985-12-09,19.75,20.00,19.25,19.37,5015200,2.21  
1985-12-06,20.12,20.12,19.62,19.75,2347200,2.25  
1985-12-05,20.50,20.75,20.00,20.12,4508800,2.30  
1985-12-04,20.12,20.62,20.12,20.50,5928800,2.34  
1985-12-03,20.25,20.37,20.00,20.12,5548800,2.30  
1985-12-02,20.12,20.25,20.00,20.25,3611200,2.31  
1985-11-29,20.00,20.12,19.87,20.12,3546400,2.30  
1985-11-27,19.37,20.12,19.25,20.00,6873600,2.28  
1985-11-26,19.12,19.50,19.00,19.37,5892800,2.21  
1985-11-25,19.00,19.25,19.00,19.12,3488800,2.18  
1985-11-22,19.00,19.25,18.87,19.00,4620000,2.17  
1985-11-21,19.00,19.25,19.00,19.00,3720000,2.17  
1985-11-20,19.25,19.37,19.00,19.00,3548800,2.17  
1985-11-19,19.87,20.00,19.25,19.25,3373600,2.20  
1985-11-18,19.87,20.00,19.87,19.87,2342400,2.27  
1985-11-15,20.00,20.25,19.87,19.87,2932800,2.27  
1985-11-14,20.00,20.12,20.00,20.00,4995200,2.28  
1985-11-13,19.87,19.87,19.37,19.37,3642400,2.21  
1985-11-12,20.00,20.25,19.87,19.87,6224800,2.27  
1985-11-11,20.50,20.75,20.00,20.00,6421600,2.28  
1985-11-08,20.50,20.75,20.50,20.50,10517600,2.34  
1985-11-07,19.62,19.87,19.62,19.62,11352800,2.24  
1985-11-06,19.25,19.37,19.25,19.25,7181600,2.20  
1985-11-05,18.75,19.12,18.62,18.62,3841600,2.12  
1985-11-04,18.75,19.12,18.75,18.75,5584800,2.14  
1985-11-01,18.62,19.00,18.62,18.62,3320000,2.12  
1985-10-31,19.00,19.25,18.62,18.62,5548800,2.12  
1985-10-30,19.00,19.00,19.00,19.00,8098400,2.17  
1985-10-29,18.00,18.00,17.87,17.87,4693600,2.04  
1985-10-28,18.00,18.12,18.00,18.00,2148800,2.05  
1985-10-25,18.37,18.37,18.00,18.00,2271200,2.05  
1985-10-24,18.37,18.87,18.37,18.37,9768800,2.10  
1985-10-23,18.00,18.50,18.00,18.00,5309600,2.05  
1985-10-22,18.00,18.25,18.00,18.00,15186400,2.05  
1985-10-21,17.75,17.75,17.25,17.25,4248800,1.97  
1985-10-18,18.25,18.37,17.75,17.75,8268800,2.03  
1985-10-17,18.25,19.12,18.25,18.25,12455200,2.08  
1985-10-16,18.00,18.12,18.00,18.00,10336000,2.05



1985-10-15,17.00,17.12,17.00,17.00,10504800,1.94  
1985-10-14,16.62,16.62,16.62,16.62,5555200,1.90  
1985-10-11,16.00,16.25,16.00,16.00,4261600,1.83  
1985-10-10,15.88,16.00,15.88,15.88,9386400,1.81  
1985-10-09,15.13,15.25,15.00,15.00,3001600,1.71  
1985-10-08,15.13,15.13,15.13,15.13,3144000,1.73  
1985-10-07,15.00,15.25,15.00,15.00,3284800,1.71  
1985-10-04,15.50,15.50,15.00,15.00,2484800,1.71  
1985-10-03,15.63,15.63,15.50,15.50,1784800,1.77  
1985-10-02,15.75,15.88,15.63,15.63,795200,1.78  
1985-10-01,15.75,15.88,15.75,15.75,3175200,1.80  
1985-09-30,15.88,16.00,15.75,15.75,1324800,1.80  
1985-09-27,15.88,16.00,15.88,15.88,250400,1.81  
1985-09-26,15.88,16.00,15.88,15.88,1949600,1.81  
1985-09-25,16.50,16.50,15.88,15.88,3761600,1.81  
1985-09-24,16.87,17.25,16.50,16.50,3161600,1.88  
1985-09-23,16.87,17.12,16.87,16.87,4277600,1.92  
1985-09-20,17.00,17.12,16.75,16.75,4846400,1.91  
1985-09-19,17.00,17.00,17.00,17.00,6662400,1.94  
1985-09-18,16.25,16.25,16.25,16.25,4316000,1.85  
1985-09-17,15.25,15.25,15.25,15.25,6564000,1.74  
1985-09-16,15.75,15.75,15.25,15.25,1344000,1.74  
1985-09-13,16.12,16.12,15.75,15.75,2541600,1.80  
1985-09-12,16.12,16.12,16.12,16.12,3998400,1.84  
1985-09-11,15.50,15.63,15.50,15.50,3150400,1.77  
1985-09-10,15.38,15.63,15.38,15.38,4364800,1.75  
1985-09-09,15.25,15.38,15.25,15.25,4728800,1.74  
1985-09-06,15.00,15.00,15.00,15.00,3333600,1.71  
1985-09-05,14.88,15.00,14.88,14.88,1201600,1.70  
1985-09-04,14.88,15.13,14.88,14.88,1708800,1.70  
1985-09-03,15.00,15.00,14.75,14.75,1369600,1.68  
1985-08-30,15.00,15.00,15.00,15.00,1537600,1.71  
1985-08-29,15.25,15.25,14.88,14.88,2006400,1.70  
1985-08-28,15.25,15.38,15.25,15.25,1475200,1.74  
1985-08-27,15.25,15.25,15.25,15.25,1540000,1.74  
1985-08-26,15.13,15.13,15.13,15.13,1315200,1.73  
1985-08-23,14.88,15.00,14.75,14.75,1601600,1.68  
1985-08-22,15.25,15.25,14.88,14.88,4406400,1.70  
1985-08-21,15.25,15.25,15.25,15.25,2767200,1.74  
1985-08-20,15.25,15.25,15.25,15.25,2431200,1.74  
1985-08-19,15.00,15.25,15.00,15.00,1726400,1.71  
1985-08-16,14.63,14.88,14.63,14.63,3008800,1.67  
1985-08-15,14.63,14.75,14.50,14.50,3800000,1.65  
1985-08-14,15.25,15.25,14.63,14.63,10372800,1.67  
1985-08-13,15.25,15.50,15.25,15.25,1555200,1.74  
1985-08-12,15.25,15.25,15.00,15.00,1988800,1.71  
1985-08-09,15.25,15.25,15.25,15.25,2186400,1.74  
1985-08-08,15.13,15.25,15.13,15.13,5321600,1.73

1985-08-07,15.25,16.00,14.88,14.88,5452800,1.70  
1985-08-06,15.38,15.75,15.25,15.25,2260000,1.74  
1985-08-05,15.75,15.88,15.38,15.38,3307200,1.75  
1985-08-02,15.88,15.88,15.75,15.75,3501600,1.80  
1985-08-01,15.88,16.12,15.88,15.88,1842400,1.81  
1985-07-31,16.25,16.37,15.88,15.88,2917600,1.81  
1985-07-30,16.25,16.37,16.25,16.25,3237600,1.85  
1985-07-29,16.62,16.62,16.00,16.00,2808800,1.83  
1985-07-26,16.62,16.75,16.62,16.62,4673600,1.90  
1985-07-25,16.62,16.75,16.62,16.62,11282400,1.90  
1985-07-24,16.50,16.75,16.25,16.25,6040000,1.85  
1985-07-23,16.87,17.12,16.50,16.50,6038400,1.88  
1985-07-22,17.37,17.37,16.87,16.87,6906400,1.92  
1985-07-19,17.37,17.37,17.37,17.37,4117600,1.98  
1985-07-18,17.62,17.62,17.25,17.25,6437600,1.97  
1985-07-17,17.62,17.87,17.62,17.62,4255200,2.01  
1985-07-16,17.75,17.87,17.50,17.50,5120000,2.00  
1985-07-15,17.87,18.25,17.75,17.75,2804800,2.03  
1985-07-12,18.00,18.00,17.87,17.87,1680000,2.04  
1985-07-11,18.00,18.12,18.00,18.00,2361600,2.05  
1985-07-10,18.00,18.00,18.00,18.00,3802400,2.05  
1985-07-09,17.62,17.75,17.62,17.62,5284000,2.01  
1985-07-08,17.62,17.75,17.62,17.62,3301600,2.01  
1985-07-05,17.62,17.75,17.62,17.62,1321600,2.01  
1985-07-03,17.50,17.50,17.50,17.50,2472800,2.00  
1985-07-02,18.12,18.25,17.25,17.25,2807200,1.97  
1985-07-01,18.12,18.25,18.12,18.12,3702400,2.07  
1985-06-28,18.37,18.50,18.00,18.00,4875200,2.05  
1985-06-27,18.37,18.50,18.37,18.37,6915200,2.10  
1985-06-26,18.12,18.12,18.12,18.12,4722400,2.07  
1985-06-25,17.50,17.87,17.50,17.50,10506400,2.00  
1985-06-24,17.25,17.50,17.25,17.25,7387200,1.97  
1985-06-21,16.12,16.50,16.12,16.12,5941600,1.84  
1985-06-20,15.75,15.75,15.75,15.75,6822400,1.80  
1985-06-19,15.63,15.88,15.63,15.63,6177600,1.78  
1985-06-18,15.25,15.50,15.25,15.25,9489600,1.74  
1985-06-17,14.88,15.00,14.88,14.88,8464000,1.70  
1985-06-14,14.88,15.75,14.75,14.75,20226400,1.68  
1985-06-13,15.75,15.88,14.88,14.88,13573600,1.70  
1985-06-12,16.12,16.25,15.75,15.75,8888800,1.80  
1985-06-11,16.12,16.50,16.12,16.12,10751200,1.84  
1985-06-10,16.37,16.50,16.12,16.12,11296000,1.84  
1985-06-07,17.00,17.00,16.37,16.37,16980000,1.87  
1985-06-06,17.00,17.00,17.00,17.00,9688800,1.94  
1985-06-05,17.25,17.75,16.87,16.87,10267200,1.92  
1985-06-04,17.25,17.37,17.25,17.25,14373600,1.97  
1985-06-03,17.00,17.00,16.00,16.00,20578400,1.83  
1985-05-31,17.62,18.00,17.37,17.37,13235200,1.98

1985-05-30,17.62,17.87,17.62,17.62,11273600,2.01  
1985-05-29,17.12,17.25,17.12,17.12,8808800,1.95  
1985-05-28,17.87,17.87,16.87,16.87,18253600,1.92  
1985-05-24,19.75,19.75,18.12,18.12,21060000,2.07  
1985-05-23,20.50,20.50,19.75,19.75,8576000,2.25  
1985-05-22,20.75,20.87,20.62,20.62,4342400,2.35  
1985-05-21,21.25,21.25,20.75,20.75,5452800,2.37  
1985-05-20,21.75,22.25,21.37,21.37,7044000,2.44  
1985-05-17,21.37,22.12,21.25,21.75,7592800,2.48  
1985-05-16,21.37,22.00,21.37,21.37,8275200,2.44  
1985-05-15,20.00,20.37,20.00,20.00,4668800,2.28  
1985-05-14,20.00,20.12,19.75,19.75,4364000,2.25  
1985-05-13,20.25,20.37,20.00,20.00,3157600,2.28  
1985-05-10,20.00,20.50,20.00,20.25,4893600,2.31  
1985-05-09,20.00,20.12,20.00,20.00,4571200,2.28  
1985-05-08,19.87,19.87,19.87,19.87,5177600,2.27  
1985-05-07,20.00,20.00,20.00,20.00,3844800,2.28  
1985-05-06,20.00,20.25,19.75,19.75,2007200,2.25  
1985-05-03,19.25,20.12,19.25,20.00,5673600,2.28  
1985-05-02,20.62,20.62,19.25,19.25,11787200,2.20  
1985-05-01,21.25,21.37,20.87,20.87,2075200,2.38  
1985-04-30,21.25,21.37,21.25,21.25,3396000,2.42  
1985-04-29,21.87,22.00,21.12,21.12,2256000,2.41  
1985-04-26,22.00,22.62,21.87,21.87,4295200,2.50  
1985-04-25,22.00,22.12,22.00,22.00,3135200,2.51  
1985-04-24,22.12,22.50,22.00,22.00,2830400,2.51  
1985-04-23,22.12,22.25,22.12,22.12,4261600,2.52  
1985-04-22,22.50,22.50,21.62,21.62,3700000,2.47  
1985-04-19,22.87,22.87,22.37,22.50,3468800,2.57  
1985-04-18,22.87,23.00,22.87,22.87,7246400,2.61  
1985-04-17,22.62,22.87,22.62,22.62,4402400,2.58  
1985-04-16,21.62,21.75,21.62,21.62,2424800,2.47  
1985-04-15,21.37,21.62,21.37,21.37,2168800,2.44  
1985-04-12,21.37,21.37,20.75,20.87,2607200,2.38  
1985-04-11,21.37,22.00,21.37,21.37,5260000,2.44  
1985-04-10,21.00,21.25,21.00,21.00,8117600,2.40  
1985-04-09,19.62,19.75,19.62,19.62,9461600,2.24  
1985-04-08,20.87,21.00,19.62,19.62,7129600,2.24  
1985-04-04,21.00,21.12,20.62,20.87,5792800,2.38  
1985-04-03,21.00,21.12,21.00,21.00,8681600,2.40  
1985-04-02,21.62,21.75,21.00,21.00,8146400,2.40  
1985-04-01,22.12,22.62,21.62,21.62,4115200,2.47  
1985-03-29,21.87,22.25,21.87,22.12,3155200,2.52  
1985-03-28,21.87,22.25,21.87,21.87,4667200,2.50  
1985-03-27,22.50,22.75,21.87,21.87,4008800,2.50  
1985-03-26,22.50,22.50,22.50,22.50,4346400,2.57  
1985-03-25,22.25,22.25,21.62,21.62,3931200,2.47  
1985-03-22,22.62,23.00,22.25,22.25,2910400,2.54

1985-03-21,22.62,23.00,22.62,22.62,5826400,2.58  
1985-03-20,22.25,22.62,22.25,22.25,14498400,2.54  
1985-03-19,22.87,23.12,22.00,22.00,6147200,2.51  
1985-03-18,22.87,23.12,22.87,22.87,4487200,2.61  
1985-03-15,21.75,23.12,21.62,22.62,6524000,2.58  
1985-03-14,21.75,21.87,21.75,21.75,8667200,2.48  
1985-03-13,23.00,23.00,21.75,21.75,8973600,2.48  
1985-03-12,23.00,23.25,23.00,23.00,7880000,2.62  
1985-03-11,22.25,22.37,22.25,22.25,10244800,2.54  
1985-03-08,22.12,22.12,20.75,21.50,16931200,2.45  
1985-03-07,24.62,24.75,22.12,22.12,26244000,2.52  
1985-03-06,25.87,25.87,24.62,24.62,6933600,2.81  
1985-03-05,25.87,25.87,25.87,25.87,4687200,2.95  
1985-03-04,25.25,26.00,25.25,25.25,5484000,2.88  
1985-03-01,24.75,24.87,24.00,24.87,8857600,2.84  
1985-02-28,25.12,25.12,24.75,24.75,11415200,2.82  
1985-02-27,26.75,26.75,25.12,25.12,14421600,2.87  
1985-02-26,27.25,27.37,26.75,26.75,6764800,3.05  
1985-02-25,27.62,27.75,27.25,27.25,3564000,3.11  
1985-02-22,26.87,27.87,26.87,27.62,8096000,3.15  
1985-02-21,26.87,27.00,26.87,26.87,11035200,3.07  
1985-02-20,27.62,27.75,26.37,26.37,7864800,3.01  
1985-02-19,27.87,27.87,27.62,27.62,5391200,3.15  
1985-02-15,27.62,28.12,27.37,28.00,6224000,3.19  
1985-02-14,28.37,28.62,27.62,27.62,15268800,3.15  
1985-02-13,29.75,29.75,28.37,28.37,18835200,3.24  
1985-02-12,30.50,30.62,29.75,29.75,8095200,3.39  
1985-02-11,30.50,30.75,30.50,30.50,12431200,3.48  
1985-02-08,29.87,30.00,29.50,29.87,4757600,3.41  
1985-02-07,30.00,30.37,29.87,29.87,8793600,3.41  
1985-02-06,30.00,30.00,30.00,30.00,6980000,3.42  
1985-02-05,29.50,30.00,29.50,29.50,6824800,3.37  
1985-02-04,29.25,29.37,29.25,29.25,7801600,3.34  
1985-02-01,29.00,29.12,28.37,28.62,4941600,3.27  
1985-01-31,29.87,30.00,29.00,29.00,9880000,3.31  
1985-01-30,29.87,30.50,29.87,29.87,17624800,3.41  
1985-01-29,30.25,30.50,29.87,29.87,8029600,3.41  
1985-01-28,30.25,30.62,30.25,30.25,14721600,3.45  
1985-01-25,29.00,29.62,28.37,29.62,11381600,3.38  
1985-01-24,29.62,29.62,29.00,29.00,14192800,3.31  
1985-01-23,30.12,30.25,29.62,29.62,15384000,3.38  
1985-01-22,30.12,30.25,30.12,30.12,15202400,3.44  
1985-01-21,29.25,29.50,29.25,29.25,11635200,3.34  
1985-01-18,28.12,29.25,28.00,28.62,12615200,3.27  
1985-01-17,30.25,30.75,28.12,28.12,19573600,3.21  
1985-01-16,30.25,30.75,30.25,30.25,6816000,3.45  
1985-01-15,30.62,31.12,30.00,30.00,9476000,3.42  
1985-01-14,30.62,30.87,30.62,30.62,9691200,3.49

1985-01-11,30.00,30.25,29.50,29.75,7347200,3.39  
1985-01-10,30.00,30.12,30.00,30.00,9926400,3.42  
1985-01-09,28.75,29.12,28.75,28.75,5973600,3.28  
1985-01-08,28.25,28.50,28.00,28.00,5040000,3.19  
1985-01-07,28.37,28.50,28.25,28.25,6117600,3.22  
1985-01-04,28.37,28.50,28.00,28.37,4915200,3.24  
1985-01-03,28.37,29.12,28.37,28.37,5967200,3.24  
1985-01-02,29.12,29.12,27.87,27.87,6272800,3.18  
1984-12-31,29.12,29.25,29.12,29.12,7453600,3.32  
1984-12-28,27.75,28.87,27.62,28.75,5941600,3.28  
1984-12-27,27.75,27.87,27.75,27.75,3531200,3.17  
1984-12-26,27.62,27.87,27.62,27.62,2444000,3.15  
1984-12-24,27.50,27.62,27.50,27.50,2418400,3.14  
1984-12-21,27.37,27.50,26.75,27.00,4438400,3.08  
1984-12-20,27.50,28.00,27.37,27.37,5013600,3.12  
1984-12-19,28.62,28.75,27.50,27.50,11372800,3.14  
1984-12-18,28.62,28.75,28.62,28.62,12164800,3.27  
1984-12-17,27.00,27.25,27.00,27.00,4513600,3.08  
1984-12-14,25.75,26.62,25.75,26.37,3475200,3.01  
1984-12-13,25.75,26.25,25.75,25.75,2424800,2.94  
1984-12-12,26.37,26.37,25.50,25.50,3937600,2.91  
1984-12-11,26.75,27.12,26.37,26.37,4432800,3.01  
1984-12-10,27.25,27.25,26.75,26.75,4016000,3.05  
1984-12-07,27.37,28.37,27.12,27.25,17696000,3.11  
1984-12-06,27.37,27.50,27.37,27.37,11360000,3.12  
1984-12-05,26.12,26.12,26.12,26.12,9406400,2.98  
1984-12-04,24.87,25.37,24.87,24.87,4332800,2.84  
1984-12-03,24.75,24.87,24.37,24.37,3533600,2.78  
1984-11-30,25.37,25.62,24.62,24.75,3906400,2.82  
1984-11-29,25.87,25.87,25.37,25.37,6248800,2.89  
1984-11-28,25.87,26.50,25.87,25.87,14673600,2.95  
1984-11-27,24.62,24.87,24.62,24.62,4590400,2.81  
1984-11-26,24.00,24.00,24.00,24.00,3636000,2.74  
1984-11-23,23.37,24.12,23.37,23.75,4904800,2.71  
1984-11-21,23.12,23.25,23.12,23.12,6418400,2.64  
1984-11-20,22.62,22.75,22.62,22.62,9424800,2.58  
1984-11-19,23.25,23.37,21.87,21.87,8321600,2.50  
1984-11-16,23.75,24.12,23.12,23.25,5920000,2.65  
1984-11-15,23.75,24.00,23.75,23.75,3833600,2.71  
1984-11-14,23.75,24.00,23.75,23.75,3752800,2.71  
1984-11-13,24.12,24.62,23.50,23.50,4548800,2.68  
1984-11-12,24.12,24.25,24.12,24.12,4070400,2.75  
1984-11-09,24.75,24.87,23.00,23.25,10518400,2.65  
1984-11-08,25.75,25.75,24.75,24.75,3162400,2.82  
1984-11-07,26.25,26.37,25.75,25.75,8286400,2.94  
1984-11-06,26.25,26.37,26.25,26.25,8073600,3.00  
1984-11-05,24.87,25.37,24.75,24.75,3764800,2.82  
1984-11-02,25.00,25.12,24.75,24.87,1004800,2.84

1984-11-01,25.00,25.25,25.00,25.00,1680000,2.85  
1984-10-31,25.00,25.25,24.87,24.87,2191200,2.84  
1984-10-30,25.00,25.25,25.00,25.00,2677600,2.85  
1984-10-29,24.75,24.87,24.75,24.75,1836000,2.82  
1984-10-26,25.25,25.25,24.50,24.62,4113600,2.81  
1984-10-25,26.25,26.25,25.25,25.25,5676000,2.88  
1984-10-24,26.25,26.50,26.25,26.25,5989600,3.00  
1984-10-23,26.00,26.25,26.00,26.00,6668800,2.97  
1984-10-22,25.62,26.00,25.37,25.37,4108800,2.89  
1984-10-19,25.62,27.37,25.50,25.62,11673600,2.92  
1984-10-18,25.62,25.75,25.62,25.62,8842400,2.92  
1984-10-17,24.87,25.00,24.87,24.87,5636000,2.84  
1984-10-16,24.00,24.12,23.87,23.87,4246400,2.72  
1984-10-15,24.00,24.25,24.00,24.00,8715200,2.74  
1984-10-12,23.75,23.87,22.50,22.75,9522400,2.60  
1984-10-11,23.87,24.50,23.75,23.75,6553600,2.71  
1984-10-10,24.62,24.62,23.87,23.87,13070400,2.72  
1984-10-09,24.87,25.00,24.62,24.62,4515200,2.81  
1984-10-08,24.87,25.00,24.87,24.87,1721600,2.84  
1984-10-05,25.37,25.37,24.75,24.87,3510400,2.84  
1984-10-04,25.37,25.62,25.37,25.37,4482400,2.89  
1984-10-03,25.12,25.50,25.12,25.12,4335200,2.87  
1984-10-02,24.75,25.62,24.75,24.75,4258400,2.82  
1984-10-01,25.00,25.00,24.50,24.50,3521600,2.80  
1984-09-28,25.75,25.75,24.62,25.12,8344800,2.87  
1984-09-27,25.75,25.87,25.75,25.75,3796000,2.94  
1984-09-26,26.12,27.25,25.75,25.75,3987200,2.94  
1984-09-25,26.50,26.50,26.12,26.12,5977600,2.98  
1984-09-24,26.87,27.00,26.62,26.62,2833600,3.04  
1984-09-21,27.12,27.87,26.50,26.87,3591200,3.07  
1984-09-20,27.12,27.37,27.12,27.12,2387200,3.09  
1984-09-19,27.62,27.87,27.00,27.00,3816000,3.08  
1984-09-18,28.62,28.87,27.62,27.62,3495200,3.15  
1984-09-17,28.62,29.00,28.62,28.62,6886400,3.27  
1984-09-14,27.62,28.50,27.62,27.87,8826400,3.18  
1984-09-13,27.50,27.62,27.50,27.50,7429600,3.14  
1984-09-12,26.87,27.00,26.12,26.12,4773600,2.98  
1984-09-11,26.62,27.37,26.62,26.87,5444000,3.07  
1984-09-10,26.50,26.62,25.87,26.37,2346400,3.01  
1984-09-07,26.50,26.87,26.25,26.50,2981600,3.02

<?xml version="1.0" ?>

<resource>

<object class="wxFrame" name="MainFrame">

<title>embedding\_in\_wx3</title>

<object class="wxPanel" name="MainPanel">

<object class="wxBoxSizer">

<orient>wxVERTICAL</orient>

<object class="sizeritem">

```

<object class="wxStaticText">
  <label>Check out this whizz-bang stuff!</label>
  <style>wxALIGN_CENTRE</style>
</object>
<option>0</option>
<flag>wxALL|wxEXPAND</flag>
<border>5</border>
</object>
<object class="sizeritem">
  <object class="wxBoxSizer">
    <orient>wxHORIZONTAL</orient>
    <object class="sizeritem">
      <object class="wxButton" name="whiz_button">
        <label>whiz</label>
      </object>
      <option>0</option>
      <flag>wxALL|wxEXPAND</flag>
      <border>2</border>
    </object>
    <object class="sizeritem">
      <object class="wxButton" name="bang_button">
        <label>bang</label>
      </object>
      <option>0</option>
      <flag>wxALL|wxEXPAND</flag>
      <border>2</border>
    </object>
    <object class="sizeritem">
      <object class="wxStaticText" name="">
        <label>bang count:</label>
        <style>wxALIGN_RIGHT</style>
      </object>
      <option>1</option>
      <flag>wxALL|wxEXPAND</flag>
      <border>2</border>
    </object>
    <object class="sizeritem">
      <object class="wxTextCtrl" name="bang_count">
        <value>0</value>
      </object>
      <option>0</option>
      <flag>wxEXPAND</flag>
    </object>
  </object>
  <option>0</option>
  <flag>wxLEFT|wxRIGHT|wxEXPAND</flag>
  <border>5</border>
</object>

```

```

<object class="sizeritem">
  <object class="wxPanel" name="plot_container_panel"/>
  <option>1</option>
  <flag>wxEXPAND</flag>
</object>
</object>
</object>
</object>
</resource>
NUMPY{'descr': [('date', '|O8'), ('open', '<f8'), ('high', '<f8'), ('low', '<f8'), ('close', '<f8'), ('volume', '<i8'), ('adj_close', '<f8')], 'fortran_order': False, 'shape': (6081,) }
cnumpy.core.multiarray
_reconstruct
qcnumpy.core.records
recarray
qKUbRq(KMcnumpy
dtype
qcnumpy.core.records
record
qKKRq(KU|N(UdateqUopenqUhighq Ulowq
UcloseqUvolumeqU adj_closeq
tq}q(hhUi8KKRq(KU<NNNJKtbK(qh
hUf8KKRq(KU<NNNJKtbK0qh hKqh
hKqhUO8KKRq(KU|NNNJK?tbKqhhK qhhKquK8KKtb]q((cdatetime
date
qU RqG@:G@:QG@:@G@:J~G@(\)tq(hU
RqG@:G@:QG@9QG@:^QJ#G@zGtq(hU Rq G@:QG@;^QG@:QG@:QJSG@\tq!(hU
Rq"G@:QG@;G@:QG@:QJHG@
=ptq#(hU
Rq$G@:G@:QG@;G@;J]qG@ Qtq%(hU Rq&G@;QG@<G@;QG@;QJ G@ p
=qtq'(hU Rq(G@<QG@=G@<QG@<QJiG@
(\)tq)(hU Rq*G@<QG@<QG@;QG@;QJ U5G@ 333333tq+(hU Rq,G@;QG@;QG@;G@;J@::G@
=ptq-(hU Rq.G@;QG@;^QG@;QG@;QJm$G@Qtq/(hU Rq0G@;QG@;QG@:G@:QJ 6G@\tq1(hU
Rq2G@:QG@;G@:QG@:QJ<+G@QRtq3(hU Rq4G@:G@:G@:QG@:QJ6[G@
=ptq5(hU Rq6G@:QG@;@G@9G@9J<G@Qtq7(hU Rq8G@9G@9QG@9G@9J 9G@Qtq9(hU
Rq:G@9G@9G@8QG@9QJTG@\tq;(hU
Rq<G@9G@9G@8G@8J@5G@ffffftq=(hU
Rq>G@8G@9QG@8G@8J @G@\tq?(hU
Rq@G@9QG@9G@9QG@9QJ &BG@\tqA(hU
RqBG@9^QG@9QG@9^QG@9^QJ eDG@QtqC(hU
RqDG@9^QG@9^QG@8G@8QJ5G@QtqE(hU
RqFG@8QG@9G@8QG@8QJEG@QtqG(hU
RqHG@8QG@9G@8QG@8QJDG@zG{tqI(hU

RqJG@8QG@8QG@7QG@7QJ@pG@\tqK(hU
RqLG@7QG@8G@7G@7JdG@zGtqM(hU
RqNG@7G@7QG@6G@6JLG@tqO(hU
RqPG@8G@8@G@8G@8JG@QtqQ(hU

```



RqRG@8G@8QG@7QG@7QJ@G@\\(tqS(hU  
RqTG@8QG@9G@8QG@8QJUG@QtqU(hU  
RqVG@9QG@9G@9QG@9QJG@\\(tqW(hU  
RqXG@9QG@;^QG@9G@9QJ G@\\(tqY(hU  
RqZG@9QG@:G@9^QG@9^QJ>G@Qtq[(hU  
Rq\\G@:G@:@G@:G@:JeG@\\(tq](hU  
Rq^G@:@G@:G@:@G@:@G@:Jd[G@tq\_(hU  
Rq`G@:@G@:@G@9@G@9@JVG@  
=p  
tqa(hU  
RqbG@9@G@9@G@8G@8QJ>G@zG{tqc(hU  
RqdG@8G@8QG@8G@8JG@\\(tqe(hU  
RqfG@9G@9@G@9G@9J(G@tqg(hU  
RqhG@9G@9@G@8QG@8QJ`o!G@Qtqi(hURqjG@9G@9@G@9G@9JG@tqk(hURqlG@9G@9QG@8G@8QJ  
UG@Qtqm(hURqnG@8QG@9^QG@8G@8J@r9G@\\(tqo(hURqpG@:@G@:^QG@:@G@:@J1{G@tqq(hURqr  
G@:@G@:^QG@9G@9Jp~G@Qtqs(hURqtG@9G@9G@8G@8J A0G@\\(tqu(hU  
RqvG@8G@8QG@7G@7@JG@333333tqw(hURqxG@8QG@8@G@8QG@8QJ>G@tqy(hU  
RqzG@8QG@8QG@7G@7JhEG@p  
=qtq{(hURqlG@7G@8G@7G@7J`C9G@zGtq}(hURq~G@7G@8G@7G@7J:G@zGtq(hURqG@7G@8QG@7Q  
G@7@JUZG@333333tq(hURqG@7@G@7^QG@5QG@5QJ@~G@tq(hURqG@6QG@6G@6QG@6QJG@  
=ptq(hURqG@7QG@7@G@7QG@7QJaG@Qtq(hURqG@7^QG@8QG@7^QG@7J JG@zGtq(hURqG@8G@8  
G@8G@8J  
{7G@Qtq(hURqG@8QG@8QG@8QG@8QJ@FG@zG{tq(hURqG@9QG@:G@9QG@9QJG@tq(hURqG@9QG  
@9QG@9^QG@9^QJ`Y\_G@Qtq(hURqG@9^QG@9QG@8QG@8J;G@\\(tq(hURqG@8G@8QG@8^QG@8^QJ  
5G@=p  
=tq(hURqG@8QG@9^QG@8QG@8QJBG@Qtq(hURqG@:QG@:QG@:QG@:QJG@  
=ptq(hURqG@:^QG@;G@:^QG@;^QJWG@\\(tq(hURqG@:^QG@<^QG@;QG@;@JG@Gztq(hU  
RqG@:@G@:@G@:G@:JG=G@fffffftq(hURqG@:G@;QG@:^QG@:^QJCG@zGtq(hURqG@:^QG@:^QG@9G  
@9J@<G@GzHtq(hU  
RqG@9G@:@G@9G@9J\$G@Qtq(hURqG@9G@:QG@9G@:^QJ5G@zGtq(hURqG@;G@;@G@;G@;J@DG@  
=ptq(hURqG@<QG@<G@<QG@<QJG@  
(\\)tq(hURqG@<QG@<G@;G@;JG@  
Qtq(hURqG@;G@<G@;^QG@;^QJ`LG@\\(tq(hURqG@;^QG@;G@:G@;JCG@  
=ptq(hURqG@;G@;QG@;G@;J\$G@ Qtq(hURqG@;QG@;QG@;QG@;QJJ%G@  
333333tq(hURqG@;G@;QG@;G@;J5G@ \\(tq(hURqG@;G@<QG@;QG@<J`ZG@  
=p  
=tq(hURqG@=QG@=@G@=QG@=QJqG@  
\\(tq(hURqG@=QG@=QG@;QG@;QJ`\_G@ p  
=qtq(hURqG@<^QG@=QG@<^QG@<^QJ`  
[G@ Qtq(hURqG@<^QG@<G@<G@<^QJKG@ Qtq(hURqG@<^QG@<G@<@G@<@JX]G@  
\\(tq(hURqG@<@G@<G@<G@<JLG@ Qtq(hU RqG@<G@=QG@<G@<J`&[G@  
=p  
=tq(hU  
RqG@>G@>QG@>G@>JwG@\\(tq(hURqG@>G@>@G@=G@=JpG@Qtq(hURqG@>QG@>QG@>QG@>QJ  
@G@Qtq(hURqG@>QG@?QG@>G@>JG@\\(tq(hURqG@>@G@>G@>@G@>@JhG@tq(hURqG@>@G@>  
G@<QG@<QJ`\*G@ zGtq(hURqG@<QG@=@G@<G@<QJ`~G@  
(\\)tq(hURqG@=@G@=G@=@G@=@JG@  
Qtq(hURqG@>QG@>@G@>QG@>QJ`G@Qtq(hURqG@>QG@>@G@=QG@=QJG@

=p  
tq(hURqG@=QG@=QG@=G@=JG@  
zG{tq(hURqG@=G@=QG@<^QG@=QJ`G@  
=p  
tq(hURqG@>@G@>QG@>@G@>@J@G@tq(hURqG@>@G@>G@=QG@=QJzG@GzHtq(hURqG@=QG@>  
G@=QG@=QJG@GzHtq(hURqG@=QG@>G@=G@=JG@  
zG{tq(hURqG@=G@=QG@<^QG@<QJ`gKG@  
(\tq(hURqG@=@G@=^QG@=@G@=@JwG@  
Qtq(hURqG@=G@>G@=G@=J`#hG@  
\(tq(hURqG@>G@>G@>G@>JjG@\\(tq(hURqG@>G@>^QG@=QG@=QJ.G@GzHtq(hURqG@=QG@>G@=  
G@=QJ`HG@GzHtq(hURqG@>G@>G@>G@>J`G@  
=ptq(hURqG@>G@>QG@=G@=J`G@Qtq(hU  
RqG@=G@=G@<^QG@<^QJgG@ Qtq(hURqG@<^QG@<QG@;QG@;QJG@  
333333tq(hURqG@;QG@<QG@;^QG@<J`G@ Qtq(hURqG@;QG@;QG@;QG@;QJ`CRG@  
333333tq(hURrG@;QG@;G@:^QG@:^QJxG@zGtr(hURrG@:QG@;G@:QG@:QJ@bG@\\(hURrG@:QG@;Q  
G@:QG@;QJ`G@  
333333tr(hURrG@;QG@;G@;@G@;@Ja6G@Gztr(hURrG@;@G@;^QG@:G@:J9gG@ffffftr(hURr  
G@:G@:G@9QG@9QJ`G@\\(tr(hURrG@9QG@9QG@8G@8J.G@\\(tr  
(hURrG@8G@8QG@8G@8QJ(G@Qtr(hURrG@9@G@:G@9@G@9@JSG@  
=p  
tr(hURrG@9QG@9QG@9QG@9QJ`GG@tr(hURrG@9QG@9QG@8QG@8QJ`iG@zG{tr(hURrG@8QG@8G@  
6QG@6QJ`sG@(\tr(hURrG@6QG@6QG@4G@5JYG@tr(hURrG@6@G@6^QG@6@G@6@JRG@QRtr(hURr  
G@7G@7@G@7G@7J@=xG@\\(tr(hU  
RrG@7G@7G@5G@5J`G@  
=ptr(hURr`G@5G@5QG@5G@5J`@G@  
=ptr!(hURr"G@5G@7QG@5QG@6QJ`cG@  
=ptr#(hURr\$G@6QG@7QG@6QG@6QJ  
xDG@Gztr%(hURr&G@6QG@7QG@6G@6JjG@zGtr'(hURr(G@6@G@6QG@6@G@6@J':G@QRtr)(hURr\*  
G@6QG@7G@6QG@6QJ`XG@  
=ptr+(hURr,G@6QG@7G@6@G@6@G@6@Jh,G@QRtr-  
(hURr.G@6@G@6@G@5QG@5QJ@;G@\\(tr/(hURr0G@6G@6G@6G@6J  
RBG@\\(tr1(hURr2G@6G@6G@5QG@5QJ`+=G@tr3(hURr4G@5QG@6@G@5QG@5QJ@7GG@tr5(hURr6G  
@5QG@6@G@5QG@6QJ%0G@(\tr7(hURr8G@6QG@6QG@5QG@5QJ>G@\\(tr9(hURr:G@5QG@5G@5G  
@5JMjG@333333tr;(hURr<G@5G@5QG@5G@5JxG@333333tr=(hURr>G@5G@5QG@4QG@4QJ`dXG@  
=p  
tr?(hURr@G@4QG@5G@3QG@3QJIG@QtrA(hU RrBG@3QG@3G@3QG@3QJ`\_G@QtrC(hU  
RrDG@5G@5@G@5G@5J`{G@333333trE(hURrFG@5^QG@6G@5^QG@5^QJBPG@QtrG(hURrHG@5^QG  
@5^QG@4G@4QJ`G@  
=p  
trI(hURrJG@5^QG@5QG@5^QG@5^QJ!G@QtrK(hURrLG@5QG@5G@5QG@5QJ\$G@\\(trM(hURrNG@6QG  
@6QG@6QG@6QJ,CG@  
=ptrO(hURrPG@6QG@7G@6QG@6QJ@nG@GztrQ(hURrRG@6QG@6QG@6^QG@6J4G@\\(trS(hURrTG@6  
G@6G@5QG@5QJ  
u8G@\\(trU(hURrVG@6QG@6@G@6QG@6QJAG@\\(trW(hURrXG@6QG@6G@6G@6J@0+G@zGtrY(hURr  
ZG@6G@6QG@6G@6J/G@zGtr[(hURr\G@6G@6QG@5QG@5QJ  
AG@tr](hURr^G@5QG@6G@5QG@5QJl"G@GzHtr\_(hURr`G@5@G@5^QG@5@G@5@J3G@\\(tra(hURrbG  
@5@G@5^QG@4QG@4QJ`G@  
=p

trc(hURrdG@4QG@4QG@3@G@3@JG@tre(hURrfG@3@G@4QG@3@G@4JVG@=p  
=trg(hURrhG@4G@4@G@3G@3JG@tri(hURrjG@4G@4G@4G@4J:G@=p  
=trk(hURrlG@3QG@3QG@3QG@3QJOG@(\)trm(hU RrnG@4G@4QG@4G@4J@EG@=p  
=tro(hU  
RrpG@4G@4G@4@JJG@zG{trq(hU  
RrrG@4@G@4^QG@4G@4J`.0G@=p  
=trs(hURrtG@4G@4QG@3G@3JBG@tru(hURrvG@4G@4^QG@4G@4J=GG@=p  
=trw(hURrxG@5^QG@6G@5^QG@5^QJE~G@Qtry(hURrzG@5^QG@6QG@5@G@5J`sG@  
=ptr{(hURrjG@5G@6@G@5^QG@5^QJ{kG@Qtr}(hURr~G@5@G@5@G@4G@4J4SG@(\tr(hURrG@4G@4  
QG@4QG@4QJBBG@tr(hURrG@4G@4G@3G@3JG@tr(hURrG@3G@3G@2QG@2QJYAG@(\tr(hURrG@1  
QG@1QG@0QG@0QJ  
G?Qtr(hURrG@1QG@1@G@1QG@1QJ`iG?333333tr(hURrG@1QG@1QG@1QG@1QJG@zGtr(hURrG@1QG  
@2G@1^QG@1^QJG?zGtr(hURrG@1G@1G@0G@0J`:G?GzHtr(hURrG@1@G@1^QG@1@G@1@JRG?Qtr(h  
URrG@1@G@1G@0QG@0QJ@G?Qtr(hURrG@1G@1G@1G@1JG?  
=p  
tr(hURrG@1G@1G@0^QG@0^QJ`G?Qtr(hU  
RrG@0^QG@0G@0QG@0QJ]G?p  
=qtr(hURrG@0QG@0G@0QG@0QJG?p  
=qtr(hURrG@0QG@0@G@/G@/JG?tr(hU  
RrG@/G@/\(G@-\(G@-\(JG?333333tr(hURrG@-\(G@/G@-G@-J`4G?Gztr(hURrG@-\(G@.G@-\(G@-  
\\J&G?333333tr(hURrG@.G@/G@.G@.JG?  
=ptr(hURrG@/B\(\G@/\(G@/B\(\G@/B\(\J@C^G?zG{tr(hURrG@/G@/G@/G@/JhG?tr(hURrG@0QG@0G@0QG  
@0QJ`ZG?p  
=qtr(hURrG@1@G@1G@1@G@1@J@pG?Qtr(hURrG@1G@1QG@1G@1JPG@tr(hURrG@2QG@2QG@2QG  
@2QJHG@(\tr(hURrG@2^QG@2G@2^QG@2^QJiG@tr(hURrG@2^QG@2G@2G@2JcJG@ffffftr(hURrG@2  
QG@2@G@2QG@2QJ~8G@(\tr(hURrG@2QG@2@G@1@G@1@J\*G?Qtr(hURrG@1G@1G@1G@1J`%G@tr  
(hURrG@1QG@1G@1QG@1QJ\*G@zGtr(hURrG@1QG@1G@1QG@1QJ`2G@zGtr(hU  
RrG@1QG@1G@1QG@1QJPG@zGtr(hU  
RrG@2G@2G@2G@2J`G@ffffftr(hURrG@2G@2QG@2G@2J  
\$G@ffffftr(hURrG@2G@2G@1QG@1QJG@QRtr(hURrG@1QG@2@G@1G@1J@\*G@=p  
=tr(hURrG@1G@1QG@1G@1J  
NG@tr(hURrG@1QG@1QG@1QG@1QJ@G@zGtr(hURrG@1QG@1QG@1@G@1@J:bG?Qtr(hURrG@1^QG  
@1^QG@1^QG@1^QJ`>G?zGtr(hURrG@1^QG@1^QG@0QG@0QJ  
biG?Qtr(hURrG@0QG@1QG@0G@0J#G?zGtr(hURrG@0G@0G@0@G@0@J)G?tr(hURrG@0QG@0G@0Q  
G@0QJ`G?ffffftr(hURrG@0QG@0G@0QG@0QJ@PG?ffffftr(hURrG@0QG@0QG@0G@0J\*G?GzHtr(hURr  
G@0@G@0^QG@0@G@0@Jf1G?tr(hURrG@0@G@0^QG@/\(G@/\(J,G?(\tr(hURrG@/\(G@0QG@/\(G@/\(JG  
?(\tr(hURrG@/\(G@/\(G@/G@/J`n5G?tr(hURrG@/G@/\(G@.\(G@.\(Jv2G?tr(hURrG@.\(G@/G@.G@.J`|G?  
=ptr(hURrG@.G@0G@-\(G@-\(J4SG?333333tr(hURrG@.B\(\G@.G@.B\(\G@.B\(\J3QG?zGtr(hU  
RrG@.G@.G@.G@.J`!G?  
=ptr(hURrG@.G@.G@.G@.JXG?(\tr(hU  
RrG@.G@/G@.G@.JG?  
=ptr(hURrG@.G@.G@-B\(\G@-B\(\JFG?Qtr(hURrG@-B\(\G@-G@-G@-J9G?ffffftr(hURrG@-B\(\G@-\(G@-  
B\(\G@-B\(\J`-G?Qtr(hURrG@.G@.G@.G@.JWG?(\tr(hURrG@.G@.G@.G@.J%G?  
=ptr(hURrG@.G@.G@.G@.J`9\*G?  
=ptr(hURrG@.G@.G@-\(G@-\(J<CG?333333tr(hURrG@-\(G@.G@-G@-  
J@pG?Gztr(hURrG@.B\(\G@.B\(\G@.B\(\G@.B\(\JG?zGtr(hURrG@.G@.G@.G@.JG?  
=ptr(hURrG@.G@.\(G@.G@.JG?  
=ptr(hURr

G@.G@.G@-\(G@-\(JG?33333tr(hURrG@.G@.G@.G@.J@vG?)\tr  
(hU RrG@.G@.G@-G@-JG?Gztr(hU RrG@-\(G@.B)\(G@-\(G@-\(JG?33333tr(hU RrG@-\(G@.G@-\(G@-\  
\JUG?33333tr(hU RrG@.G@.G@.G@.J2G?)\tr(hU RrG@.G@.\(G@.G@.JHG?  
=ptr(hU  
RrG@.\(G@/B)\(G@.\(G@.\(JBG?tr(hU RrG@/G@/B)\(G@/G@/J@0G?QRtr(hU  
RrG@0QG@0QG@0QG@0QJ=G?p  
=qtr(hU  
RrG@0QG@0QG@/G@/J &G?tr(hU Rr G@/G@/G@.G@.JG?  
=ptr!(hU Rr"G@.G@.G@.G@.J(dG?  
=ptr#(hU Rr\$G@0@G@0@G@0@G@0@J`AG?tr%(hU Rr&G@1G@1G@1G@1JeG?  
=p  
tr'(hU Rr(G@1G@1QG@0G@0J@IG?)\tr)(hU Rr\*G@0QG@1QG@0QG@0QJ`EAG?Qtr+(hU  
Rr.G@0QG@1@G@0G@0J>0G?zGtr-(hU Rr.G@0G@0G@/\(G@/\(Je9G?)\tr/(hU  
Rr0G@/\(G@0G@/\(G@/\(JG?)\tr1(hU Rr2G@/\(G@0G@/\(G@/\(J G?)\tr3(hU  
Rr4G@/\(G@0G@/G@/J7G?tr5(hU  
Rr6G@/G@/\(G@/G@/J s0G?tr7(hU  
Rr8G@/G@/\(G@/B)\(G@/B)\(J@"G?zG{tr9(hU  
Rr:G@/B)\(G@/B)\(G@/G@/J;G?QRtr;(hU  
Rr<G@/G@/G@.G@.J@%G?)\tr=(hU  
Rr>G@.G@.G@.G@.J@2G?)\tr?(hU  
Rr@G@.B)\(G@.B)\(G@.B)\(G@.B)\(J@/G?zGtrA(hU  
RrBG@.B)\(G@.G@.G@.J-G?)\trC(hU  
  
RrDG@/\(G@0G@/\(G@/\(J9G?)\trE(hU  
RrFG@0G@0@G@0G@0JAG?GzHtrG(hU  
RrHG@0QG@0QG@0QG@0QJTG?ffffftrI(hU  
RrJG@1G@1QG@1G@1J`JG?  
=p  
trK(hU  
RrLG@2G@2QG@2G@2JG@ffffftrM(hU  
RrNG@2@G@3QG@2@G@2@J  
G@  
=ptrO(hU  
RrPG@2@G@2^QG@1G@1J,~G@=p  
=trQ(hU  
RrRG@1G@1G@1@G@1@J@G?QtrS(hU  
RrTG@2G@2@G@2G@2JG@ffffftrU(hU  
RrVG@2G@2G@2G@2JQG@ffffftrW(hU  
RrXG@2^QG@2QG@2^QG@2^QJ`G@trY(hU  
RrZG@2^QG@2^QG@2G@2J"G@ffffftr[(hU  
Rr\G@2G@2QG@2G@2J G@ffffftr](hU  
Rr^G@2G@2G@1QG@1QJ`GG@QRtr\_(hU  
Rr`G@3G@3G@3G@3J`{G@/\tra(hU  
RrbG@3G@3@G@2QG@2QJTG@)\trc(hURrdG@2QG@3G@2QG@2QJ2G@)\tre(hURrfG@2G@3QG@2G@  
2J7UG@Qtrg(hURrhG@2G@3QG@2QG@2QJ@:G@)\tri(hURrjG@3@G@3^QG@3@G@3@J  
mG@trk(hURrlG@3QG@3QG@3QG@3QJ:G@Qtrm(hURrmG@4G@4G@4G@4J`|G@Qtro(hURrpG@4G@4G  
@4G@4J`aG@=p  
=trq(hURrrG@4G@4@G@3QG@3QJ^G@)\trs(hU

RrtG@3QG@3QG@3^QG@3^QJ 7G@zGtru(hURrvG@4G@4QG@4G@4J8LG@=p  
=trw(hURrxG@4G@4@G@3QG@3QJ@,G@(\)try(hURrzG@3QG@4G@3QG@3QJ#G@(\)tr{(hURr|G@3QG@  
4G@3@G@3@J  
z3G@tr}(hURr~G@3@G@3^QG@3G@3J&6G@(\)tr(hURrG@3G@3@G@3G@3J@8G@(\)tr(hURrG@3G@3  
@G@2QG@3J~FG@(\)tr(hURrG@3G@3@G@3G@3QJ <5G@p  
=qtr(hURrG@3QG@3G@3G@3^QJYG@zGtr(hURrG@3^QG@4QG@3@G@4JhG@=p  
=tr(hURrG@4G@4QG@3QG@4QJ  
6G@ffffftr(hURrG@4QG@4@G@4G@4@J@7G@zG{tr(hURrG@4@G@4^QG@4G@4QJTG@ffffftr(hURrG  
@4QG@4QG@4QG@4J`wZG@Qtr(hURrG@4G@4G@4G@4QJDG@ffffftr(hURrG@4QG@4QG@3QG@3J#  
G@tr(hU RrG@3G@4G@3@G@3^QJLG@zGtr(hU  
RrG@3^QG@3QG@3@G@3JmG@  
=ptr(hURrG@3G@4QG@3G@3JG@tr(hURrG@3QG@4@G@3QG@4JDG@=p  
=tr(hU  
RrG@4G@4@G@3G@4J`G@=p  
=tr(hURrG@4G@5@G@4G@4QJ G@  
=p  
tr(hURrG@4QG@5G@4^QG@4QJ;G@tr(hURrG@5^QG@6QG@5^QG@6@J@1G@QRtr(hURrG@6@G@6G  
@6QG@6JG@(\)tr(hURrG@6G@6G@6@G@6^QJpG@ffffftr(hURrG@6^QG@6G@5QG@5QJNG@tr(hURrG  
@5QG@6G@5QG@5J`#G@  
=ptr(hURrG@5G@6G@5QG@5J NG@  
=ptr(hURrG@5G@6QG@5G@6^QJCG@ffffftr(hURrG@6^QG@6QG@6QG@6@J`:G@QRtr(hURrG@6@G@  
6^QG@6G@6J10G@zGtr(hURrG@6G@6@G@5G@6@J@H@G@QRtr(hURrG@6@G@6^QG@6QG@6^QJ  
G@ffffftr(hURrG@6^QG@6^QG@5QG@6@JAEg@QRtr(hURrG@6@G@7G@6QG@7J  
uG@(\)tr(hURrG@7G@7G@6G@6QJ`IKG@Gztr(hU RrG@6QG@7G@5QG@6QJ`-G@  
=ptr(hU  
RrG@6QG@7QG@6QG@6JSG@tr(hU  
RrG@6G@7QG@6G@7J`uG@(\)tr(hURrG@7G@7G@6G@7@JG@33333tr(hURrG@7@G@8G@7QG@7QJG  
@(\)tr(hURrG@7QG@8G@7QG@8J#G@ffffftr(hURrG@8G@8G@7QG@8JZG@Qtr(hURrG@8G@8G@7^QG  
@7QJ@FG@(\)tr(hURrG@7QG@8QG@7G@8JbSG@Qtr(hURrG@8G@8QG@6^QG@7^QJNG@(\)tr(hURrG@  
7^QG@7G@6G@7JUG@(\)tr(hURrG@7G@7^QG@6QG@6QJ=G@  
=ptr(hURrG@6QG@6G@6G@6QJG@(\)tr(hURrG@6QG@6^QG@6G@6@J  
MyG@QRtr(hURrG@6@G@8^QG@6G@7QJ`IAG@tr(hURrG@7G@7G@6QG@7J  
G@(\)tr(hURrG@7G@7@G@6QG@7QJ#QG@Qtr(hURrG@7QG@8G@6QG@7QJ  
G@(\)tr(hURrG@7QG@8^QG@7G@7JG@zGtr(hURrG@7G@7QG@7G@7J`ukG@zGtr(hURrG@7G@8@G@7  
QG@8QJIG@tr(hURrG@8QG@8QG@7G@8JGG@Qtr(hU  
RrG@8G@8G@7G@7QJ=G@(\)tr(hURrG@7QG@8G@7G@7QJSG@(\)tr(hURrG@7QG@8G@7G@8J`HG@Qtr  
(hU  
RrG@8G@8G@7G@7QJ@.<G@(\)tr(hURrG@7QG@8QG@7G@7J  
5KG@zGtr(hURrG@7G@8G@7@G@7QJ`PG@(\)tr(hURrG@7QG@9G@7QG@9J  
fG@tr(hURrG@9G@9^QG@8QG@9QJKG@(\)tr(hURrG@9QG@9G@9QG@9@JRgG@  
=p  
tr(hURrG@9@G@9G@9G@9J@G@Qtr(hURrG@9G@:^QG@9QG@:^QJzG@zGtr(hURrG@:^QG@:G@:G@:  
J#ZG@(\)tr(hURrG@:G@:QG@9G@9QJ@;G@(\)tr(hURrG@9QG@9QG@8QG@9J@DG@tr(hURrG@9G@9Q  
G@8G@8QJ`;G@zG{tr (hURr  
G@8QG@9G@8G@8QJ1G@zG{tr(hURrG@8QG@9G@8@G@9@J`G@  
=p  
tr  
(hURrG@9@G@9G@9QG@9^QJ@e7G@Qtr(hURrG@9^QG@9^QG@8G@8J`5G@(\)tr(hU

RrG@8G@8QG@8QG@8QJ)G@zG{tr(hURrG@8QG@8QG@8G@8QJ@-  
8G@Qtr(hURrG@8QG@9QG@8G@8J.G@\tr(hU  
RrG@8G@9G@8^QG@8J?G@\tr(hURrG@8G@:@G@8G@:QJ^JG@  
=ptr(hURrG@:G@:G@9^QG@:J@G@\tr(hURrG@:G@;@G@9QG@:QJG@\tr(hURr  
G@:QG@;@G@:^QG@:JhG@(\tr!(hURr"G@<G@=QG@<G@<@J#G@ \tr#(hURr\$G@<@G@<G@;G@;QJ  
G@ 33333tr%(hURr&G@;QG@;QG@:^QG@:J G@ffffftr'(hURr(G@:G@;QG@:G@;QJG@ p  
=qtr(hURr\*G@;QG@<G@;QG@<@J-yG@ \tr+(hURr,G@<@G@=G@<@G@<@JwG@ \tr-  
(hURr.G@<@G@<G@<G@<@JfG@  
\tr/(hURr0G@<@G@<@G@;G@;@JyG@Gztr1(hURr2G@;@G@;^QG@:@G@;@JjG@Gztr3(hURr4G@;@G  
@;QG@:QG@;J/sG@  
=ptr5(hURr6G@;G@;G@:QG@:JDG@ffffftr7(hURr8G@:G@;G@:@G@;@JAG@Gztr9(hURr:G@;@G@;G@;  
@G@;QJ {iG@ 33333tr;(hU Rr<G@;QG@;G@:QG@;QJJG@Qtr=(hU  
Rr>G@;QG@;^QG@:QG@;@J<G@Gztr?(hURr@G@;@G@;G@;G@;J)G@  
=ptrA(hURrBG@;G@;@G@:G@:QJ.G@\trC(hURrDG@:QG@;G@:QG@;^QJHG@\trE(hURrFG@;^QG@<G  
@;^QG@<@J^rG@ \trG(hURrHG@<@G@=QG@<G@=J^G@  
zG{trI(hURrJG@=G@=QG@<G@=J  
]G@QtrK(hURrLG@=QG@>G@=QG@>^QJ^G@\trM(hURrNG@>^QG@?@G@=QG@=QJ@G@GzHtrO(hU  
RrPG@=QG@>^QG@=^QG@=QJ@G@  
=p  
trQ(hURrRG@=QG@?G@=G@?^QJ@8G@  
=ptrS(hURrTG@?^QG@@@P  
=qG@?^QG@@ JG@  
p  
=qtrU(hURrVG@@ G@@`G@?G@@JOG@  
33333trW(hURrXG@@G@@  
G@:QG@?@J@|HG@\trY(hURrZG@?@G@?QG@>@G@>@JpKG@tr[(hURr\G@>@G@>@G@=G@>@J^G  
@tr](hURr^G@>@G@?G@>QG@>J3G@  
=ptr\_(hURr`G@>G@@@G@>G@@  
=qJ QG@  
\tra(hURrbG@@ G@@G@@ G@@@P  
=qJ^xwG@  
\trc(hURrdG@@@P  
=qG@@@p  
=qG@?@G@?JIG@Qtre(hURrfG@?G@@@  
=qG@?G@@@JKG@(\trg(hU RrhG@@G@@@  
=qG@@`G@@@  
=qJyG@zG{tri(hURrjG@@@  
=qG@BP  
=qG@@@G@B0  
=qJG@trk(hU  
RrIG@B0  
=qG@B@G@AG@BJG@p  
=qtrm(hURrnG@BG@B  
=qG@BG@Bp  
=qJG@  
=ptro(hURrpG@Bp  
=qG@BG@A  
=qG@BJ^yG@p

=qtrq(hURrrG@BG@B G@A  
=qG@BJ TG@p  
=qtrs(hURrtG@BG@B@G@AG@A  
=qJrG@GzHtru(hURrvG@A  
=qG@A  
=qG@A G@A  
=qJrG@(\)trw(hURrxG@A  
=qG@BG@AG@BJ}G@Gztry(hURrzG@BG@BG@AG@B`JxxG@(\tr{(hURrjG@B`G@B  
=qG@B0  
=qG@BJ`LG@Gztr}(hURr~G@BG@BG@B0  
=qG@Bp  
=qJ.G@  
=ptr(hURrG@Bp  
=qG@BG@B`G@BJ  
2qG@tr(hURrG@BG@BG@B@G@BJx7G@Gztr(hURrG@BG@BG@B@G@BJ`FG@Gztr(hURrG@BG@B  
=qG@B`G@B  
=qJ:mG@(\tr(hURrG@B  
=qG@C  
=qG@B  
=qG@B  
=qJ G@GzHtr(hURrG@B  
=qG@Cp  
=qG@BG@C`J@G@zGtr(hURrG@C`G@C  
=qG@C@G@Cp  
=qJ`PG@(\tr(hURrG@Cp  
=qG@Cp  
=qG@BG@BJ`G@=p  
=tr(hU RrG@BG@B  
=qG@A  
=qG@BJG@p  
=qtr(hU  
RrG@BG@BG@A  
=qG@BJ@G@p  
=qtr(hURrG@BG@B G@AG@B  
=qJfG@zG{tr(hURrG@B  
=qG@B0  
=qG@BG@BJFG@p  
=qtr(hU  
RrG@BG@B0  
=qG@AG@B0  
=qJNG@tr(hURrG@B0  
=qG@Bp  
=qG@A  
=qG@A  
=qJ@^G@(\tr(hURrG@A  
=qG@BG@AG@A JyG@GzHtr(hURrG@A G@A`G@ @ @G@A J`G@GzHtr(hURrG@A G@AG@ @  
=qG@AJ@gG@Qtr(hURrG@AG@B  
=qG@AG@BJ@WG@p

=qtr(hURrG@BG@B G@AP  
=qG@A`J@G@(\tr(hURrG@A`G@A  
=qG@A0  
=qG@Ap  
=qJ MG@  
=ptr(hURrG@AG@BG@AG@A  
=qJHG@(\tr(hURrG@A  
=qG@B0  
=qG@AG@B J?G@(\tr(hURrG@B G@B`G@AG@A  
=qJG@(\tr(hURrG@A  
=qG@B G@AG@A  
=qJ&G@(\tr(hURrG@A  
=qG@B  
=qG@A`G@A  
=qJ/G@(\tr(hURrG@A  
=qG@B G@A  
=qG@B  
=qJaOG@zG{tr(hURrG@B  
=qG@BG@A  
=qG@B  
=qJ TcG@(\tr(hURrG@B  
=qG@BG@A  
=qG@A  
=qJ4cG@GzHtr(hURrG@AG@AG@A  
=qG@A JDG@GzHtr(hU RrG@A G@A`G@AG@AP  
=qJG@tr(hU  
RrG@A`G@A  
=qG@AP  
=qG@A  
=qJqG@(\tr(hURrG@A  
=qG@BG@AG@B  
=qJzG@(\tr(hURrG@B  
=qG@B  
=qG@B G@B JeG@(\tr(hURrG@AG@AG@A G@Ap  
=qJZG@  
=ptr(hURrG@AG@A  
=qG@A`G@ @J0&G@(\tr(hURrG@ @G@ @G@ @  
=qG@ @JG@  
p  
=qtr(hURrG@@ G@@@G@?@G@?JuG@(\tr(hURrG@@G@@G@@`G@@J|G@(\tr(hURrG@@G@AP  
=qG@@G@AP  
=qJG@tr(hURrG@AP  
=qG@AP  
=qG@A  
=qG@A  
=qJaG@Qtr(hURrG@A G@A0  
=qG@@G@@  
=qJ&OG@=p



=tr(hURrG@@  
=qG@AG@@G@AJvG@  
=p  
tr(hURrG@@  
=qG@AG@@ G@@@0  
=qJGG@  
Qtr(hURrG@@ G@@ G@>G@?@JDG@\\(tr(hURrG@?@G@?G@>G@>J)G@  
=ptr(hURrG@>G@?G@>G@?@JG@\\(tr(hURrG@?QG@?G@?QG@?^QJQG@  
=ptr(hURrG@?^QG@?G@>QG@?J GG@Qtr(hURrG@?QG@@@0  
=qG@?G@@  
=qJ@@G@  
\\(tr(hURrG@@  
=qG@@  
=qG@?G@?QJ@deG@ffffftr(hURrG@?QG@@@P  
=qG@?QG@?J^G@\\(tr(hURrG@?QG@@@0  
=qG@?QG@?QJ\$<G@Gztr(hURrG@?QG@@G@?G@@@JdG@\\(tr(hURrG@@  
=qG@A0  
=qG@@  
=qG@A JG@GzHtr(hU  
RrG@A G@B G@A G@BJG@p  
=qtr(hURrG@BG@BG@BG@BJ)G@p  
=qtr(hURrG@B  
=qG@B@G@A  
=qG@AJ@JG@QRtr(hURrG@AG@A  
=qG@AG@A  
=qJPG@()tr(hURrG@A  
=qG@AG@AP  
=qG@A  
=qJpKG@()tr(hURrG@AG@B@G@AG@B J]G@\\(tr(hURrG@B  
=qG@B0  
=qG@AG@AJjG@QRtr(hURrG@A  
=qG@BP  
=qG@A  
=qG@B J'?G@\\(tr(hURrG@B@G@Bp  
=qG@B0  
=qG@B0  
=qJ'-EG@tr(hURrG@B0  
=qG@Bp  
=qG@B0  
=qG@BP  
=qJGG@Qtr(hURrG@BP  
=qG@BG@B G@BJPG@Gztr(hURrG@BG@CG@Bp  
=qG@BJwG@=p  
=tr(hURrG@B  
=qG@CG@Bp  
=qG@BJ@IG@Gztr(hU RrG@B  
=qG@B  
=qG@A`G@A`J~G@\\(tr(hU RrG@A`G@Ap

=qG@A  
=qG@A`JT@G@\tr(hU Rr  
G@AG@AG@A`G@AJIG@33333tr(hU RrG@A  
=qG@A  
=qG@AG@A  
=qJX6G@  
=p  
tr  
(hU RrG@AG@AG@@  
=qG@A`JEG@\tr(hU RrG@AP  
=qG@BG@AP  
=qG@AJ\_RG@QRtr(hU  
RrG@A  
=qG@A  
=qG@A`G@AJ)G@Qtr(hU RrG@AP  
=qG@A`G@@@G@@P  
=qJIG@  
\tr(hU RrG@@@G@@`G@?G@?JIG@\tr(hU RrG@@ G@@  
=qG@@G@@  
=qJyG@=p  
=tr(hU RrG@@  
=qG@A  
=qG@@@G@Ap  
=qJGG@  
=ptr(hU RrG@Ap  
=qG@AG@A G@A J`G@GzHtr(hU RrG@A G@A@G@@G@AJ 6G@  
=p  
tr(hU Rr G@@G@@  
=qG@@G@@  
=qJ7FG@Qtr!(hU Rr"G@@G@A  
=qG@@G@AJG@zGtr#(hU Rr\$G@AG@B G@A  
=qG@B  
=qJSG@zG{tr%(hU Rr&G@B  
=qG@B0  
=qG@AG@A  
=qJaG@  
=p  
tr'(hU Rr(G@A  
=qG@AG@@  
=qG@A@JfG@Qtr)(hU Rr\*G@A  
=qG@A0  
=qG@@  
=qG@A JW&G@GzHtr+(hU Rr,G@@  
=qG@@  
=qG@?QG@@@JrG@  
zGtr-(hU Rr.G@@p  
=qG@@  
=qG@@P

=qG@@JcG@\tr(hU  
Rr0G@@  
=qG@A@G@@  
=qG@A  
=qJLG@Qtr1(hU  
Rr2G@@G@A0  
=qG@@G@A  
=qJ3G@Qtr3(hU  
Rr4G@A0  
=qG@A`G@@  
=qG@@JALG@tr5(hU  
Rr6G@@G@A G@@  
=qG@A  
=qJ3G@Qtr7(hU  
Rr8G@AG@A  
=qG@@p  
=qG@@J@EG@(\)tr9(hU  
Rr:G@@p  
=qG@@G@@G@@`J]=G@  
Qtr;(hU  
Rr<G@@`G@@G@@P  
=qG@@J+G@(\)tr=(hU

Rr>G@@p  
=qG@@  
=qG@@0  
=qG@@JG@QRtr?(hU

Rr@G@@  
=qG@AP  
=qG@@G@AP  
=qJ6G@trA(hU  
RrBG@AP  
=qG@AG@@G@AJ`PmG@  
=p  
trC(hU  
RrDG@@G@@G@@`G@@  
=qJ jpG@zG{trE(hU  
RrFG@@  
=qG@@  
=qG@@G@@  
=qJfJG@QtrG(hU  
RrHG@@G@AG@@  
=qG@@  
=qJ PSG@QtrI(hU  
RrJG@@G@@  
=qG@@p  
=qG@@p

=qJQG@trK(hU  
RrLG@@G@@G@@P  
=qG@@`J>G@  
QtrM(hU  
RrNG@@`G@@p  
=qG@@G@@@J3G@  
zGtrO(hU  
RrPG@@@G@@@  
=qG@@@G@@@  
=qJCG@=p  
=trQ(hU  
RrRG@@@  
=qG@@G@@`G@@Jz)G@(\)trS(hU  
RrTG@@G@AG@@G@AJ@RG@  
=p  
trU(hU  
RrVG@AG@A  
=qG@@G@@@  
=qJ@MG@zG{trW(hU  
RrXG@@G@@G@@@  
=qG@@@  
=qJ.G@zG{trY(hU  
RrZG@@G@A`G@@@  
=qG@A JG@GzHtr[(hU  
Rr\G@A G@Ap  
=qG@A G@AP  
=qJ2BG@tr](hURr^G@A`G@A  
=qG@AP  
=qG@AJFSG@Qtr\_(hURr`G@Ap  
=qG@A  
=qG@@@  
=qG@AJGG@QRtra(hURrbG@AG@B  
=qG@AG@BJTG@Gztrc(hURrdG@BP  
=qG@Bp  
=qG@AG@B  
=qJG@zG{tre(hURrfG@BG@B  
=qG@Ap  
=qG@AJ@NG@QRtrg(hU  
RrhG@A  
=qG@A  
=qG@A  
=qG@A  
=qJ9G@(\)tri(hURrjG@AG@AG@AG@AJG@333333trk(hURrlG@AG@BP  
=qG@A  
=qG@BP  
=qJ`GG@Qtrm(hU  
RrnG@B@G@B@G@AG@AJ 5KG@333333tro(hURrpG@AG@AG@Ap  
=qG@AJ@IG@zGtrq(hURrrG@AG@BG@AG@B0

=qJ`aMG@trs(hURrtG@B0  
=qG@B`G@A  
=qG@A  
=qJO]G@(\)tru(hURrvG@A  
=qG@AG@A@G@AJG@Qtrw(hURrxG@Ap  
=qG@A  
=qG@Ap  
=qG@AJ"G@zGtry(hURrzG@AG@B G@A  
=qG@BJ@G@p  
=qtr{(hURr|G@B G@C  
=qG@BG@CJG@\\(tr}(hURr~G@CG@D0  
=qG@CG@D JG@\\(tr(hURrG@D  
=qG@DG@DG@D@JG@zG{tr(hURrG@D@G@DP  
=qG@C  
=qG@DJxG@=p  
=tr(hURrG@DG@D  
=qG@C  
=qG@D  
=qJ5G@QRtr(hURrG@D@G@DG@DG@DJjG@\\(tr(hURrG@D  
=qG@EG@DG@E`JG@Qtr(hURrG@EP  
=qG@E`G@EG@E@JjG@ffffftr(hURrG@EP  
=qG@EG@E@G@EjG@\\(tr(hURrG@E  
=qG@E  
=qG@E0  
=qG@E@J5G@ffffftr(hU RrG@E0  
=qG@EP  
=qG@D  
=qG@E0  
=qJG@\\(tr(hU  
RrG@E0  
=qG@EG@EG@EjG@  
=ptr(hURrG@E  
=qG@E  
=qG@EP  
=qG@Ep  
=qJJ{G@\\(tr(hURrG@Ep  
=qG@EG@DG@DJpbG@  
=ptr(hURrG@DG@DG@D0  
=qG@DJ)rG@  
=p  
tr(hURrG@D  
=qG@E@G@D  
=qG@E@J\_SG@ffffftr(hURrG@E0  
=qG@E@G@Dp  
=qG@DJRG@  
=ptr(hURrG@D  
=qG@D  
=qG@D`G@D

=qJ~\_G@Gztr(hURrG@D  
=qG@E@G@D  
=qG@E  
=qJ mG@=p  
=tr(hURrG@EG@E@G@DG@E  
=qJYG@=p  
=tr(hURrG@E G@E0  
=qG@D  
=qG@E  
=qJG@=p  
=tr(hURrG@EG@E  
=qG@D  
=qG@D  
=qJ4G@Qtr(hURrG@D  
=qG@D  
=qG@DG@DJ`1G@Qtr(hURrG@DG@D  
=qG@D G@D@J w@G@zG{tr(hURrG@D@G@DG@D0  
=qG@DJPG@Qtr(hURrG@DG@D  
=qG@D0  
=qG@D@J]HG@zG{tr(hURrG@D0  
=qG@D  
=qG@D  
=qG@Dp  
=qJ@BG@  
=ptr(hURrG@DG@EG@DG@EJG@  
=ptr(hURrG@E  
=qG@FG@EP  
=qG@EJG@\tr(hURrG@E  
=qG@Fp  
=qG@E  
=qG@F`JG@p  
=qtr(hURrG@F`G@F  
=qG@F@G@F`JG@p  
=qtr(hU RrG@F`G@FG@F0  
=qG@F  
=qJG@Qtr(hURrG@FG@FG@F`G@FJ~G@\tr(hU  
RrG@F  
=qG@F  
=qG@FP  
=qG@FP  
=qJ sG@\tr(hURrG@FP  
=qG@H G@F@G@H  
=qJG@\tr(hURrG@H G@I  
=qG@HG@H  
=qJG@\tr(hURrG@IG@IG@GG@H`J+G@=p  
=tr(hURrG@H`G@J  
=qG@G  
=qG@J

=qJG@=p  
=tr(hURrG@KG@KG@IG@I  
=qJG@\tr(hURrG@Ip  
=qG@I  
=qG@HG@HJ"G@\tr(hURrG@Hp  
=qG@JP  
=qG@H@G@J@JG@\tr(hURrG@J@G@JG@I G@I  
J>G@Qtr(hURrG@IG@I@G@HG@HJG@Qtr(hURrG@IG@J  
=qG@H  
=qG@J JLG@zGtr(hURrG@JG@KG@J  
=qG@K  
=qJG@GzHtr(hURrG@K  
=qG@LG@J  
=qG@K  
=qJ/G@Qtr(hURrG@KG@K  
=qG@JP  
=qG@KJcG@QRtr(hURrG@KG@LG@K G@K  
=qJGG@Qtr(hURrG@LG@L  
=qG@K`G@KJaG@QRtr(hURrG@KG@KG@K0  
=qG@KJ`vG@Qtr(hURrG@KG@K  
=qG@J  
=qG@J  
=qJG@tr(hURrG@KG@KG@Jp  
=qG@KJG@  
=ptr(hU RrG@Jp  
=qG@J  
=qG@J G@JP  
=qJUG@  
=p  
tr(hU  
RrG@J@G@J`G@I  
=qG@J J6[G@zGtr(hURrG@JG@L`G@J`G@L@JG@tr(hURrG@LG@M  
=qG@LG@MP  
=qJG@\tr(hU  
RrG@MP  
=qG@O@G@MG@O  
=qJRG@\tr(hURrG@O  
=qG@PG@N  
=qG@PzHJcG@GzHtr(hURrG@PzHG@PzHG@O  
=qG@OJYG@tr(hURrG@OG@OG@NG@O0  
=qJG@zG{tr(hURrG@O0  
=qG@O@G@NP  
=qG@NJgG@\tr(hURrG@Np  
=qG@PG@M  
=qG@O  
=qJG@tr(hURrG@OG@PG@O  
=qG@P`JG@Gztr(hURrG@P`G@Q`G@P`zHG@QGzHJG@\tr(hURrG@Q`G@QzHG@QG@QGzHJ7G@\tr(h  
URrG@QGzHG@QG@PG@QJG@\tr(hURrG@QG@QG@PG@PJG@tr(hURrG@PG@QzHG@P0G@P@J

G@zGtr(hURrG@PpG@QG@PWzHG@PzHJ\$G@Gztr(hURrG@PG@Q@G@PG@Q  
JSG@GzHtr(hURrG@PG@QzHG@PG@PJ`G@zGtr (hU Rr  
G@PG@PG@P G@P'zHJ)G@zG{tr(hU  
RrG@P G@PzHG@P G@PJG@zG{tr  
(hURrG@PG@QG@PG@PJkwG@=p  
=tr(hURrG@PG@PG@O  
=qG@PPJG@tr(hU  
RrG@PPG@PG@OG@OJ@kG@tr(hURrG@OG@PPG@O@G@PPJGG@tr(hURrG@P`G@QG@P@G@PJG@  
tr(hURrG@PG@PG@P0G@PJG@Qtr(hURrG@PpG@Q  
G@P`G@QzHJpG@333333tr(hURrG@QG@QpG@QG@QJ5G@())tr(hURrG@QG@QG@PG@PJGG@tr(hURr  
G@PG@Q G@PG@PJG@=p  
=tr!(hURr"G@PG@PG@PPG@PJG@zG{tr#(hURr\$G@PG@PG@PG@PJ  
NG@zGtr%(hURr&G@PG@PG@P0G@P@JIG@zGtr'(hURr(G@OG@PG@O G@O@JG@Qtr)(hURr\*G@O  
G@P0G@O G@P JG@p  
=qtr+(hURr,G@OG@PG@O0  
=qG@PjvG@zG{tr-(hURr.G@QG@QG@PG@QJG@aGztr/(hURr0G@QG@QzHG@QG@QJ0&G@  
aGztr1(hURr2G@QG@R0G@QPG@QJxG@)(tr3(hURr4G@QpG@QG@PG@PJG@Qtr5(hURr6G@PG@QG@  
PG@Q@J)G@zG{tr7(hU Rr8G@Q0G@QG@PG@QJeG@ 333333tr9(hU  
Rr:G@QG@QG@QpG@QJ`vG@  
=p  
tr;(hU  
Rr<G@QG@QG@PG@PJ MG@tr=(hURr>G@PG@QpG@PG@QJ+G@  
=p  
tr?(hURr@G@Q`G@QG@Q0G@QJnG@ 333333trA(hURrBG@QG@RPG@QG@QJ5G@  
QRtrC(hURrDG@QG@R0G@QG@QzHJQG@ =p  
=trE(hURrFG@QG@RG@Q`G@RJG@!(trG(hURrHG@S'zHG@S@G@RG@RJG@  
=qtrI(hURrJG@RG@SPG@RG@SJG@!W  
=ptrK(hURrLG@RG@S  
G@RG@RJ)G@!(trM(hURrNG@RG@RG@RPG@RJG@!QtrO(hURrPG@RG@SwzHG@RG@S@JG@!zGtrQ  
(hURrRG@SPG@SG@S@G@SpJG@!p  
=trS(hURrTG@SG@TG@SpG@SJG@"zGtrU(hURrVG@SG@TG@SG@TJ`HG@"B(trW(hURrXG@SG@TG  
@SG@SJ MG@"333333trY(hURrZG@TG@T0G@SG@TJ}G@"QRtr[(hURr\G@T  
G@TG@SG@TJ@G@"B(tr(hURr^G@SG@T@G@SG@TJcG@"QRtr\_(hURr`G@T G@T@G@SG@SJ  
dG@"Qtra(hURrbG@S@G@SG@S0G@S@J`kG@!trc(hURrdG@SG@S G@RG@RJG@!B(trc(hU  
RrfG@RG@SzhG@RG@SJG@!  
=qtrg(hURrhG@SG@SG@SG@SJQG@"Qtri(hURrjG@SG@SG@SG@SJOG@!Gztrk(hURrlG@SG@SG@RG  
@RJG@!QRtrm(hURrnG@RG@RG@R'zHG@RPJG@ p  
=tro(hURrpG@R@G@RG@R  
G@RJxG@!Qtrq(hURrrG@RG@RG@RG@RJ\_G@!Qtrs(hURrtG@RG@RG@RpG@RzHJ`)5G@  
=qtru(hURrvG@RG@SG@RG@SJSG@!Rtrw(hURrxG@SG@TG@S`G@SJ  
bG@".zGtry(hURrzG@SG@TG@SG@TJRG@"GzHtr{(hURr|G@TG@T G@SG@SJ  
2G@"(tr}(hURr~G@SG@SG@S`G@SpJ@-  
G@!zHtr(hURrG@S`G@SG@S@G@SPJ.KG@!)tr(hURrG@SPG@SG@SPG@SpJ`JG@!zHtr(hURrG@SG@S  
G@S@G@SJ TG@!  
=qtr(hURrG@SG@SG@SpG@SpJGG@!zHtr(hURrG@SpG@SG@S0G@SpJ nG@!zHtr(hU  
RrG@S`G@SG@S`G@SJ EG@!  
=qtr(hU  
RrG@SG@TG@SG@SJOG@!



=qtr(hURrG@SG@TG@SG@SJDG@"\tr(hURrG@SG@SG@SG@SJ7G@"\tr(hURrG@SG@SG@S`G@SJG@  
!  
=qtr(hURrG@DG@DG@CG@DJG@"G{tr(hURrG@DG@E@G@DG@D@JZG@"Qtr(hURrG@D  
G@DG@CG@DJ@}G@"G{tr(hURrG@DG@DG@D0  
=qG@DJ\DG@"p  
=tr(hURrG@DG@E G@Dp  
=qG@EJ)\G@#333333tr(hURrG@EG@E  
=qG@D`G@DJ  
,G@"\tr(hURrG@DG@EG@D@G@EJ@G@#333333tr(hURrG@EG@E@G@D@G@D@JAG@"Qtr(hURrG@  
D`G@DG@DG@D@JEG@"Qtr(hURrG@D@G@D`G@DG@D`J[7G@"Qtr(hURrG@D@G@DG@CG@D@J@  
NG@"Qtr(hURrG@D`G@D`G@CG@DJ3G@"GzHtr(hURrG@DG@DG@CG@DP  
=qJ,G@"zGtr(hURrG@D`G@DG@D@G@D`J@.G@"Qtr(hURrG@D@G@DG@C`G@CJoG@!  
=qtr(hURrG@CG@CG@B@G@BJ@(G@!Qtr(hU RrG@BG@C`G@BG@BJG@!B)\tr(hU  
RrG@CG@CG@BG@CJsUG@!aGztr(hU  
RrG@CG@D`G@C`G@D@J)G@"Qtr(hURrG@DG@EG@DG@EJaG@#)\tr(hURrG@EG@F`G@E  
G@FJG@\$Qtr(hURrG@FG@FG@EG@FJ`3G@\$Qtr(hURrG@F  
G@F`G@E`G@EJZ2G@#zHtr(hURrG@EG@EG@DG@DJCG@#zGtr(hURrG@EG@E@G@DG@D  
=qJ<G@"Qtr(hURrG@DG@E`G@DG@E@JW!G@#kQtr(hURrG@EG@EG@D@G@DJ(G@#zGtr(hURrG@D  
G@E`G@DG@E@J@ @G@#kQtr(hURrG@E@G@EG@EG@E JG@#QRtr(hURrG@E@G@E`G@DG@D  
=qJ(G@##  
=ptr(hURrG@EG@EG@D@G@DJ5G@"p  
=tr(hURrG@DG@DG@D`G@DJ8G@"G{tr(hURrG@DG@EG@DG@DJ`G@"\tr(hURrG@DG@DG@D G@D  
J`G@"ffffftr(hURrG@D@G@E G@DG@E JAG@#QRtr(hURrG@E  
G@EG@EG@EJFG@#zHtr(hURrG@EG@G`G@E`G@G J@TG@%#  
=ptr(hURrG@G G@GG@GG@G@JSG@%B)\tr(hU  
RrG@H G@H G@FG@H J\*G@&zGtr(hURrG@HG@I G@H`G@HJG@&)\tr(hURrG@HG@HG@H  
G@H`JWG@&QRtr(hU  
RrG@H`G@I  
G@H@G@HJjG@&kQtr(hURrG@H@G@IG@HG@HJZ9G@&kQtr(hURrG@HG@IG@H`G@HJXOG@&)\tr(  
hURrG@HG@HG@H G@H`JeG@&QRtr(hURrG@HG@IG@HG@IJ0\$G@&Gztr(hURrG@I  
G@J@G@HG@IJ@\_G@'zGtr(hURrG@IG@JG@IG@JJ@KLG@(B)\tr(hURrG@JG@JG@J G@J  
JAG@'Qtr(hURrG@J`G@JG@JG@JJvJG@'tr(hURrG@JG@JG@JG@JJG@'tr(hURrG@J  
G@J`G@IG@JJCG@'tr(hURrG@JG@J@G@IG@JJg4G@'tr(hURrG@J G@K G@IG@KJQG@(Qtr(hU  
RrG@K`G@KG@J@G@J@JKG@(Qtr(hU RrG@JG@JG@I`G@JJ@}G@'tr(hU RrG@J@G@J`G@I  
G@IJ@dG@'u)\tr(hU RrG@IG@IG@IG@I@J`G@'Qtr(hU RrG@I G@I@G@H@G@H  
=qJ@\_G@&  
=ptr (hU Rr  
G@I G@JG@HG@J`J@VG@(#  
=ptr(hU  
RrG@JG@K@G@J  
=qG@JJ@KLG@(tr  
(hU RrG@KG@KG@J`G@K@JCG@(  
=qtr(hU RrG@K`G@KG@J`G@JJ,G@(B)\tr(hU RrG@JG@JG@IG@IJ`\$9G@'zGtr(hU RrG@IG@JP  
=qG@IG@IJ[G@'zGtr(hU RrG@JG@J G@IG@JJ\$G@'tr(hU RrG@JG@J G@I  
=qG@IJ&G@'zGtr(hU RrG@IG@J`G@I G@I J0FG@'tr(hU RrG@I@G@K G@I G@K  
=qJ@SG@(zHtr(hU RrG@K  
=qG@LG@JG@KJ0G@)GzHtr(hU Rr G@KG@L  
=qG@KG@L@J|cG@)\tr!(hU Rr"G@L`G@MG@L@G@LJP:G@\*QRtr#(hU

Rr\$G@LG@M`G@KG@KJoG@)Qtr%(hU Rr&G@LG@LG@K G@K@J@b]G@(  
=qtr'(hU Rr(G@K G@LG@K G@L@J@BG@)(\tr)(hU  
Rr\*G@L`G@M`G@L@G@M Jz?G@\*)tr+(hU  
Rr,G@M G@M`G@LG@M@J4G@\*zHtr-(hU  
Rr.G@M@G@MG@LG@MJ>IG@+Qtr/(hU  
Rr0G@MG@MG@KG@KJmG@)Qtr1(hU  
Rr2G@KG@KG@K G@KJzG@)fffffftr3(hU  
Rr4G@KG@LG@JG@K JYG@(  
=ptr5(hU  
Rr6G@K G@KG@KG@K  
=qJXOG@(zHtr7(hU  
Rr8G@K G@K0  
=qG@IG@JJIG@(aGztr9(hU  
  
Rr:G@K@G@K`G@JG@K@J@XG@(  
=qtr;(hU  
Rr<G@JG@KG@JG@JJG@(aGztr=(hU  
Rr>G@JG@K@G@IG@JJG@'tr?(hU  
Rr@G@J G@JG@GG@H JG@&zGtrA(hU  
RrBG@H G@H G@AG@B@J@fG@ 33333trC(hU  
RrDG@C@G@EG@@P  
=qG@A@J6G@trE(hU  
RrFG@C@G@EG@CG@D@J@##G@"=p  
trG(hU  
RrHG@CG@D@G@BG@B`JG@ RtrI(hU  
RrJG@AG@B@G@A G@AJ@IG@ =p  
=trK(hU  
RrLG@A@G@AG@;QG@<JG@  
=ptrM(hU  
RrNG@=G@@ G@=G@>@JiG@zGtrO(hU  
RrPG@>G@@G@=@G@@JEG@zGtrQ(hU  
RrRG@A G@DG@@ G@CJG@"zGtrS(hU  
RrTG@DG@EG@C@G@CP  
=qJ~G@!zGtrU(hURrVG@C`G@CG@BG@C`JfG@!p  
=trW(hURrXG@CG@C@G@A G@B JG@ trY(hURrZG@AG@BG@A`G@BJ@G@ zG{tr[(hURr\G@B  
G@C`G@B G@CJ)G@!fffffftr](hURr^G@C G@CG@BG@BJeG@!GzHtr\_(hU Rr`G@BG@BG@B G@BJrG@!  
=p  
tra(hU  
RrbG@B@G@BG@BG@B JW~G@ trc(hURrdG@BG@C G@B`G@BJQeG@!  
=p  
tre(hURrfG@C@G@DG@C0  
=qG@C`JGG@!p  
=trg(hU  
RrhG@CG@CG@BG@BJ:TG@!  
=p  
tri(hURrjG@BG@C@G@B@G@B`J@dG@ Rtrk(hURrlG@B`G@BG@AG@AJJG@  
\trm(hURrnG@AG@B@G@A@G@B J@G@ Qtro(hURrpG@B@G@B@G@AG@A@JcG@  
=ptrq(hURrrG@AG@BG@@G@AJG@ GzHtrs(hURrtG@AG@B G@A`G@B Jg5G@

Qtru(hURrvG@B`G@BG@B  
=qG@BJlkG@ G{trw(hURrxG@BG@BG@BG@B@J`2G@ p  
=try(hURrzG@B G@B@G@A`G@AJP&G@ \{tr{(hURr|G@@G@A@G@>G@@J  
G@GzHtr}(hURr~G@@G@AG@@`G@@JbG@Qtr(hURrG@@G@@G@@@G@@@JMG@tr(hURrG@@G  
@@  
=qG@=G@>J@G@tr(hURrG@>@G@?@G@=G@>JG@333333tr(hURrG@?G@@G@?G@@JoG@GzHtr(hU  
RrG@@G@Ap  
=qG@@G@A@JG@  
=ptr(hU RrG@A@G@B G@@@  
=qG@AJaG@ \{tr(hU  
RrG@@G@BG@@G@A`JG@Gztr(hURrG@A`G@A`G@@G@AJ@BG@333333tr(hURrG@A@G@BG@A  
G@BJ@(G@!zGtr(hURrG@BG@C G@BG@BJG@!333333tr(hURrG@BG@CG@BG@CJ  
G@"tr(hURrG@D@G@D`G@CG@CJG@"tr(hURrG@CG@DG@CG@D@JG@"zGtr(hURrG@D@G@DG@D  
G@DJfG@#(\)tr(hURrG@DG@DG@D@G@DJ0FG@#  
=p  
tr(hURrG@DG@E`G@DG@E J@b]G@#aGztr(hURrG@EG@EG@DG@EP  
=qJD&G@#(\)tr(hURrG@E G@E@G@CG@D J@ }G@"u\{tr(hURrG@D@G@E G@D G@E  
=qJ@G@#QRtr(hURrG@E@G@EG@E@G@E  
=qJTG@#fffftr(hURrG@E@G@EG@D  
=qG@EJ@@G@#B\{tr(hURrG@E`G@F`G@E G@F`J  
G@\$Qtr(hURrG@GG@G G@F G@FP  
=qJuG@\$zG{tr(hURrG@FG@FG@EG@EJ]G@\$(\)tr(hURrG@EG@F`G@E@G@F@JsG@\$kQtr(hURrG@F@G  
@FG@CG@DJG@"W  
=ptr(hURrG@DG@E`G@CG@E@J@VG@#tr(hURrG@EG@EG@CG@EJG@#B\{tr(hU  
RrG@EG@EG@D  
=qG@E J@[sG@#aGztr(hURrG@E`G@Ep  
=qG@EG@E JHG@#aGztr(hURrG@EG@FG@E@G@Ep  
=qJ`G@#(\)tr(hURrG@EG@EG@EG@E`J]DG@#tr(hURrG@E G@EG@D  
=qG@E`J@G@#tr(hURrG@EG@EG@C G@CJsG@"=p  
=tr(hURrG@D@G@D`G@C  
=qG@D  
=qJ@\*  
G@"fffftr(hURrG@D@G@D`G@C G@CJG@"tr(hURrG@CG@DG@CG@Dp  
=qJ@mG@"(\)tr(hURrG@D`G@DG@CG@CJ NG@"=p  
=tr(hURrG@D G@D@G@C`G@CJG@"=p  
=tr(hURrG@DG@DG@CG@DJ~G@"Qtr(hURrG@DG@DG@D G@DJ@G@#  
=p  
tr(hURrG@DG@E@G@D  
=qG@DJIG@#(\)tr(hURrG@DG@D  
=qG@D@G@DJ^hG@"Qtr(hURrG@DG@DG@CG@CJJ{G@"Qtr(hURrG@CG@D  
=qG@CG@CJIG@"=p  
=tr(hURrG@DG@D0  
=qG@C@G@CP  
=qJHG@!Qtr(hURrG@C@G@CG@BG@C`JoG@!zHtr(hU RrG@CG@C  
=qG@C`G@CJz?G@"=p  
=tr(hU  
RrG@CG@DG@CG@DJ]G@"tr(hURrG@DG@DG@D G@DP  
=qJPG@"

=ptr(hURrG@DP  
=qG@DG@D@G@DJKG@"  
=ptr(hURrG@DG@DG@DG@DJ:TG@"(tr(hURrG@DG@E@G@DG@D  
=qJ@G@#=#p  
=tr(hURrG@D  
=qG@E`G@DG@DJ NG@#.zGtr(hURrG@DG@EG@DG@DJy1G@#.zGtr(hURrG@DG@E  
=qG@DG@EJ@mG@#Gztr(hURrG@EG@EG@E G@E`J@=#xG@#  
=ptr(hURrG@E`G@EG@EG@E JXOG@#kQtr(hURrG@EG@EG@DG@DJaG@#.zGtr(hURrG@EG@E  
G@DG@DJ-G@#.zGtr(hURrG@DG@EG@DG@EJ  
=G@#(tr(hURrG@EG@EG@E@G@EJ@b)G@#Gztr(hURrG@EG@FG@EG@F`J@MG@\$)(tr(hURrG@F@G  
@GG@F@G@G@J-G@%aGztr(hURrG@GG@GG@FG@Gp  
=qJ"rG@%#p  
tr(hURrG@G`G@GG@G@G@Gp  
=qJ@pG@%#p  
tr(hURrG@G`G@GG@GG@G J@NG@%B)(tr(hU RrG@G G@GG@G G@G`J>IG@%zG{tr(hU  
RrG@GG@GG@FG@FJo`G@\$tr (hURr  
G@FG@FG@F@G@FJ@VG@%Qtr(hURrG@FG@G@G@FG@G J05G@%B)(tr  
(hURrG@GG@G G@F`G@FJbG@\$zGtr(hURrG@Fp  
=qG@G0  
=qG@F@G@G  
=qJ@G@%333333tr(hURrG@G G@G@G@F`G@FJ@6G@\$zGtr(hURrG@FG@FG@F  
G@F`JPG@\$)(tr(hURrG@F0  
=qG@FP  
=qG@EG@E  
=qJ{G@\$)(tr(hURrG@FG@F@G@EG@FJAG@\$8Qtr(hURrG@FG@FG@D  
=qG@E@J"rG@#=#p  
tr(hURrG@DG@E@G@DG@Dp  
=qJG@"zHtr(hURrG@D`G@DG@DG@D  
=qJ@iGG@"p  
=qtr(hURr G@DG@DG@CG@DJJG@#zGtr!(hURr"G@DG@EG@DP  
=qG@DJtG@"  
=ptr#(hURr\$G@d`G@DG@c`G@CJG@"(tr%(hURr&G@CG@d@G@CG@DJhvG@"aGztr'(hURr(G@CG@  
D@G@c@G@c`JbG@!Rtr)(hURr\*G@CG@CG@c@G@cJPG@"  
=p  
tr+(hURr,G@CG@DG@CG@DJgG@#.zGtr-(hURr.G@DG@E0  
=qG@d`G@d`JYG@"Qtr/(hURr0G@d`G@DG@CG@DJ@ynG@"  
=ptr1(hURr2G@DG@EG@DG@DJ@-QG@#zGtr3(hURr4G@DG@E G@DG@DJ^G@#.zGtr5(hU  
Rr6G@DG@EG@DG@DJ  
NG@"(tr7(hURr8G@d@G@DG@CG@CJfG@"(tr9(hURr:G@CG@DG@c@G@cJ~G@"(tr;(hURr<G@CG  
@D`G@CG@DJ\G@"aGztr=(hURr>G@d  
=qG@DG@d  
=qG@d JpsG@"tr?(hURr@G@d G@d@G@CG@CJ0uG@"B)(trA(hURrBG@d0  
=qG@d@G@CG@cJaG@"(trC(hURrDG@CG@d G@CG@d  
=qJ:G@"p  
=qtrE(hURrFG@d G@DG@DG@dP  
=qJQG@"zHtrG(hURrHG@DG@DG@d`G@DJ@\_G@#zGtrI(hURrJG@DG@EG@DG@DJ@DG@#.zGtrK(hU  
RrLG@DG@EG@DG@d  
=qJ@96G@#QtrM(hURrNG@DG@DG@d@G@DJ)1G@"

=ptrO(hURrPG@D`G@DG@D@G@DJ,G@"  
=ptrQ(hURrRG@DG@E G@D`G@DJCG@#.zGtrS(hURrTG@D  
=qG@E  
=qG@DG@EJzG@#LtrU(hURrVG@EG@E G@DG@DJ`&G@#.zGtrW(hURrXG@D  
=qG@DG@DG@DJ:G@"(trY(hU RrZG@DG@DG@D@G@D`J)G@"Qtr[(hU  
Rr\G@D@G@DG@D G@Dp  
=qJ`z4G@"zHtr](hURr^G@D G@D`G@CG@CJ7\_G@"()\tr\_(hURr`G@CG@D G@CG@CJ`@-G@"B(tra(hU  
RrbG@D G@D@G@DG@D@J\*G@"Qtrc(hURrdG@D@G@D  
=qG@DG@DJP(G@#tre(hURrfG@DG@EG@D  
G@D@J@iG@"\trg(hURrhG@D@G@D`G@CG@CJ7\_G@"Ltri(hURrjG@CG@CG@C@G@CJG@!(trk(hUR  
rlG@CG@CG@C`G@C`J,G@!  
=ptrm(hURrnG@C@G@Cp  
=qG@B  
=qG@CJdG@!tro(hURrpG@CG@CG@BG@Cp  
=qJMG@!fffftrq(hURrrG@CG@CG@C@G@C@J@IG@!p  
=trs(hURrtG@C@G@CG@C@G@C  
=qJ.G@"#  
=ptru(hURrvG@CG@DG@CG@CJ.G@"Ltrw(hURrxG@DG@DG@CG@DJ#CG@#Qtry(hURrzG@DG@E@G  
@DG@E@J@ )G@#zGtr{(hURr|G@EG@E@G@DG@DJHG@#8Qtr}(hURr~G@DG@EG@DG@EJ@\_G@#tr(  
hURrG@E`G@FG@E`G@FJYG@`\$B(\tr(hURrG@EG@FG@EG@FJG@`\$B(\tr(hURrG@F  
G@FG@FG@FJG@\$Qtr(hU RrG@FG@FG@EG@EJ@G@\$  
=p  
tr(hU  
RrG@EG@F`G@EG@F@Jo`G@\$tr(hU  
RrG@FG@FG@F G@FJ@-QG@\$Qtr(hURrG@FG@GG@FG@FJ cG@\$  
=ptr(hURrG@FG@FG@FG@FJ@BG@%\tr(hURrG@FG@FG@F G@F@J@:G@\$tr(hURrG@F`G@F`G@F  
G@F`Jp4G@\$tr(hURrG@F0  
=qG@F`G@FG@F  
=qJ@\*G@\$QRtr(hURrG@FG@FG@E  
=qG@Fp  
=qJpyCG@\$)\tr(hURrG@FG@F  
=qG@FG@F  
=qJjG@%Qtr(hURrG@FG@FG@FG@FJ)'G@\$Qtr(hURrG@FG@FG@F@G@FJ(G@\$Qtr(hURrG@F@G@F  
=qG@F@G@F@Jp-G@\$tr(hURrG@F`G@G G@F@G@G J0XG@%Ltr(hURrG@GG@G`G@FG@G0  
=qJP4NG@%\tr(hURrG@G G@G`G@GG@G J`>G@%Ltr(hURrG@G@G@Gp  
=qG@G G@G@J3G@%kQtr(hURrG@G@G@GG@G  
=qG@GJP9G@%\tr(hURrG@G  
=qG@GG@G  
=qG@G@JUG@%kQtr(hURrG@G@G@G@G@FG@F  
=qJ9G@%Qtr(hURrG@FG@GG@FG@FJx9G@\$  
=ptr(hURrG@FG@FG@Fp  
=qG@F  
=qJa(G@\$zHtr(hURrG@FG@FG@F@G@F`J`7G@\$tr(hU  
RrG@F`G@FG@F G@F`J?G@\$tr(hURrG@F`G@FG@F@G@FJPB"G@\$Qtr(hURrG@FG@FG@F`G@FJI-  
G@\$Qtr(hURrG@F  
=qG@GG@FG@FJ=G@%\tr(hURrG@FG@FG@E  
=qG@F`JBG@\$tr(hURrG@F`G@FG@FG@F  
JAG@\$aGztr(hURrG@EG@FG@E`G@EJP;QG@#tr(hURrG@EG@EG@E@G@E@J8G@#zGtr(hURrG@E`G

@EG@E G@E`J9G@#zGtr(hURrG@E`G@EG@E  
G@E`J7G@#zGtr(hURrG@E`G@EG@E@G@E`J`?G@#zGtr(hURrG@E@G@EG@E G@EP  
=qJP2G@#  
=ptr(hURrG@EG@F@G@EG@F0  
=qJ@VG@\$p  
=qtr(hURrG@F@G@FG@F G@FJ /G@\$Qtr(hURrG@FG@FG@F@G@FP  
=qJP1BG@\$\$(tr(hURrG@F`G@F`G@FG@F`J<G@\$tr(hURrG@F`G@FG@F@G@FP  
=qJ%G@\$\$(tr(hURrG@F@G@FG@F G@F JpG@\$aGztr(hURrG@F@G@F`G@FG@FJG@\$B\$(tr(hU  
RrG@FG@F G@EG@EJ0)G@\$  
=p  
tr(hU  
RrG@EG@EG@DG@D  
=qJ@PG@#GzHtr(hURrG@E G@EG@EG@EJ@:G@#Qtr(hURrG@EG@EG@E  
G@E@JI\*G@#zGtr(hURrG@E G@E G@D@G@DJ[G@#  
=p  
tr(hURrG@DG@EG@D`G@E@J  
CG@#tr(hURrG@E@G@E`G@DG@EJ@G@#aGztr(hURrG@EG@EG@DG@E@Jg(G@#tr(hURrG@E@G@E  
`G@D@G@D`J{G@"tre(hURrG@D G@D`G@CG@CJ ]G@"W  
=ptr(hURrG@CG@D G@CG@CJ)YG@"8Qtr(hURrG@CG@D`G@CG@D`JcDG@"tr(hURrG@D  
G@D@G@CG@D  
=qJEG@"Qtr(hURrG@DG@D`G@DG@D J,G@"zGtr(hURrG@D`G@DG@D@G@Dp  
=qJ9G@"(tr(hURrG@D`G@DG@DG@Dp  
=qJ0G@"(tr(hURrG@DG@D  
=qG@CG@C  
=qJ G@"ffffftr(hU RrG@CG@CG@C@G@Cp  
=qJpG@!  
=qtr(hU RrG@CG@DG@CG@CJPeG@"W  
=ptr(hU RrG@DG@DG@C`G@Cp  
=qJP4NG@!  
=qtr(hU RrG@CG@CG@BG@C JaG@!  
=ptr(hU RrG@C G@CG@BG@C`JpG@!Gztr(hU RrG@C`G@DG@BG@D@JG@"zGtr(hU RrG@DG@DG@D  
=qG@DJ0PG@"Qtr (hU  
Rr  
G@D G@DG@DG@DJAG@"Qtr(hU RrG@DG@E0  
=qG@DG@EJ`G@#aGztr  
(hU RrG@EG@E`G@DG@D  
=qJUZG@#333333tr(hU RrG@DG@E`G@D  
=qG@E J`CG@#tr(hU RrG@EG@E G@DG@DJL2G@#B\$(tr(hU RrG@DG@E G@D  
=qG@DJ`08G@##  
=ptr(hU RrG@DG@EG@DG@E`J01G@#Qtr(hU RrG@EG@FG@E`G@FJfOG@\$Ltr(hU RrG@EG@F  
G@EG@EJ7G@\$zGtr(hU RrG@EG@FG@E@G@E`J/G@#Qtr(hU RrG@E@G@EG@E@G@E  
=qJXG@\$Qtr(hU Rr G@EG@F  
=qG@EG@EJP^.G@\$zGtr!(hU Rr"G@EG@F G@EG@FJ:G@\$Ltr#(hU  
Rr\$G@FG@FG@EG@EJ02G@#(tr%(hU  
Rr&G@EG@EG@EG@E@J]1G@#tr'(hU  
Rr(G@E G@E`G@D  
=qG@DJ01G@##  
=ptr(hU

Rr\*G@DG@DG@D@G@Dp  
=qJ#CG@"(tr+(hU  
Rr,G@D@G@Dp  
=qG@CG@CJp[G@"W  
=ptr-(hU  
Rr.G@CG@CG@C0  
=qG@CJG@"W  
=ptr/(hU

Rr0G@CG@CG@BG@C@J@FG@!(tr1(hU  
Rr2G@C G@CG@C G@CJDjG@"tr3(hU  
Rr4G@C@G@CG@CG@C`JHG@!Gztr5(hU

Rr6G@C@G@CG@C@G@CJ0YG@"tr7(hU  
Rr8G@CG@CG@C  
=qG@C`JpUG@!Gztr9(hU  
Rr:G@C@G@CG@C G@C@J H3G@!(tr;(hU  
Rr<G@CG@CG@C G@C  
=qJMG@"(tr)=(hU  
Rr>G@CG@D`G@CG@DJ0VG@"u(tr?(hU  
Rr@G@DG@D  
=qG@DG@DJ ^G@##  
=ptrA(hU  
RrBG@DG@DG@D`G@DJ{CG@"QtrC(hU  
RrDG@DG@DG@C  
=qG@DJIG@"u(trE(hU  
RrFG@D G@D G@CG@C  
=qJq.G@"ffffftrG(hU  
RrHG@DG@DG@C@G@CJgG@"trI(hU  
RrJG@C`G@CG@C G@CJPfNG@"trK(hU  
RrLG@CG@CG@C@G@C@Jp/.G@!(trM(hU  
RrNG@C`G@C`G@BG@CP  
=qJG@!RtrO(hURrPG@C@G@C`G@BG@CJpiNG@!=p  
trQ(hURrRG@C G@C G@B`G@BJ@qG@!.zGtrS(hURrTG@BG@BG@B`G@B  
=qJ0KG@!#  
=ptrU(hURrVG@B`G@CG@B`G@BJ`SG@!kQtrW(hURrXG@BG@BG@BG@BJ  
\G@!LtrY(hURrZG@BG@C`G@B  
=qG@C@JTG@!(tr[(hU Rr\G@C G@C  
=qG@CG@CJmG@"tr](hU  
Rr^G@CG@CG@CG@CJ6G@"8Qtr\_(hURr`G@CG@C  
=qG@C@G@C@J=;G@!(tra(hURrbG@C`G@CG@C G@Cp  
=qJ].G@!  
=qtrc(hURrdG@CG@CG@C`G@CJp+G@"tre(hURrfG@CG@CG@BG@CJPG@!=p  
trg(hURrhG@CG@C@G@CG@C JpZ+G@!  
=ptri(hURrjG@C@G@C@G@CG@CJG@!=p  
trk(hURrlG@BG@BG@B G@BP  
=qJxG@  
=qtrm(hURrnG@B@G@Bp

=qG@BG@B  
=qJPG@ Qtro(hURrpG@AG@BG@AG@Bp  
=qJfG@!(trq(hURrrG@B G@B`G@BG@B@Jp)G@ Gztrs(hURrtG@B@G@B`G@BG@B@JLG@  
Gztru(hURrvG@B@G@B`G@BG@B`J2G@!trw(hURrxG@B`G@CG@B`G@B  
=qJ[G@!ffffftry(hURrzG@BG@CG@BG@C`JsG@!Qtr{(hURrjG@C G@C  
=qG@CG@CJ0G@"()\tr}(hURr~G@CG@DG@C`G@CJrTG@"GzHtr(hURrG@CG@CG@CG@CJ19G@"GzHtr  
(hURrG@CG@CG@C`G@C  
=qJP5G@"8Qtr(hURrG@CG@CG@C`G@C  
=qJ o G@"tr(hU RrG@CG@CG@C`G@C  
=qJ`G@"tr(hURrG@CG@CG@C@G@C@J0S@G@!Rtr(hU  
RrG@C@G@C`G@C  
G@C`J`BG@!Qtr(hURrG@C@G@DG@C@G@CJiG@"aGztr(hURrG@DG@D@G@CG@CJ=G@"GzHtr(hUR  
rG@CG@D@G@CG@D  
=qJGdG@"\tr(hURrG@D G@DG@DG@D`J`G@"\tr(hURrG@DG@DG@DP  
=qG@DJpG@"\tr(hURrG@DG@EG@DG@DJ`G@#QRtr(hURrG@DG@EG@D`G@DJ:G@"\tr(hURrG@DG  
@D  
=qG@DG@D  
=qJG@#Qtr(hURrG@DG@DG@D@G@D@J G@"p  
=tr(hURrG@D@G@D`G@CG@D J0G@"Qtr(hURrG@D G@D`G@D G@D@J E@G@"p  
=tr(hURrG@D@G@DG@D G@D J,G@"Qtr(hURrG@D G@D@G@DG@D0  
=qJ6G@"zGtr(hURrG@D`G@E  
=qG@D@G@EJG@#kQtr(hURrG@EG@EG@DG@E JG@#=#p  
tr(hURrG@E G@EG@E G@EP  
=qJpdIG@#Qtr(hU RrG@EG@E  
=qG@E G@EJ+G@#ffffftr(hU  
RrG@E@G@Ep  
=qG@DG@EP  
=qJc8G@#Qtr(hURrG@E G@E@G@DG@E  
=qJ09UG@#zG{tr(hURrG@E G@EG@EG@E`JQG@#zHtr(hU  
RrG@E`G@EG@E0  
=qG@EjG@\$tr(hURrG@EG@FG@EG@EJ0)G@\$=#p  
=tr(hURrG@EG@EG@DG@D0  
=qJG@"zGtr(hURrG@D`G@D  
=qG@CG@CJ  
G@"aGztr(hURrG@D@G@DG@DG@D@JG@"p  
=tr(hURrG@D@G@DG@D G@DJp^G@"\tr(hURrG@D`G@DG@D`G@DJ  
sbG@"\tr(hURrG@DG@DG@D`G@D  
=qJ`yG@#B\tr(hURrG@DG@EG@DG@DJ@y<G@#33333tr(hURrG@D`G@E  
=qG@DP  
=qG@DJG@#QRtr(hURrG@C G@CG@B G@B  
=qJNG@!ffffftr(hURrG@B  
=qG@CG@BG@B  
=qJ?G@!Ltr(hURrG@BG@BG@B`G@BJG@!u\tr(hURrG@BG@C  
=qG@B  
=qG@CJ G@"()\tr(hURrG@CG@D G@CG@CJpKG@"aGztr(hURrG@DG@D  
G@CG@CJaG@"()\tr(hURrG@CG@CG@C G@C@J@?G@!Rtr(hURrG@C G@CG@C G@CJ@)ZG@"  
=p  
tr(hURrG@CG@CG@CG@C JUG@!33333tr(hU RrG@C G@CG@CG@C JWG@!33333tr(hU



RrG@C G@C G@BG@BJpG@!=p  
=tr(hU  
RrG@B`G@BG@B`G@BJpG@!Qtr(hURrG@Bp  
=qG@BG@AG@AJG@ =p  
tr(hURrG@AG@B G@AG@B J0>G@ \(\tr(hURrG@B G@BG@BG@B0  
=qJprG@ Rtr(hURrG@B G@BG@B G@B`J@?G@!  
=p  
tr(hURrG@Bp  
=qG@BG@B`G@BJgG@!fffftr(hURrG@BG@BG@B@G@B`J0%G@!  
=p  
tr(hURrG@B@G@BG@B G@B`J04G@!  
=p  
tr(hURrG@BG@BG@BG@BJ0SG@ 33333tr(hURrG@BG@B@G@AG@B@JW?G@  
=qtr(hURrG@B@G@B`G@BG@B JP\_G@ Rtr(hURrG@B G@B@G@AG@BJJG@ 33333tr(hURrG@AG@B  
G@A`G@AJ G@ =p  
=tr(hURrG@AG@AG@AG@A`JfG@ Qtr(hURrG@AG@A  
=qG@A@G@AJ[G@ u(\tr(hURrG@AG@BG@AG@AJSG@ zGtr(hURrG@A  
=qG@B G@AG@AJuG@ \(\tr(hU Rr G@AG@AG@A@G@A@J HG@ tr (hU  
Rr G@A@G@AG@A G@AJ088G@ =p  
=tr (hU  
Rr G@AG@AG@A`G@AJpWGG@ =p  
=tr (hURr G@AG@AG@Ap  
=qG@AJsXG@ \(\tr (hURr G@AG@AG@A`G@AJ81G@ =p  
=tr (hURr  
G@AG@AG@A@G@AJhG@ \(\tr (hURr G@A@G@AG@AG@Ap  
=qJPyG@ .zGtr  
(hURr G@AG@AG@A@G@Ap  
=qJbG@ .zGtr (hURr G@AG@AG@A`G@Ap  
=qJFG@ .zGtr (hURr G@A G@A`G@ @G@ @  
=qJ  
OG@p  
=qtr (hURr G@AG@A@G@ @G@A0  
=qJ@G@Gztr (hURr G@A G@A@G@ @G@ @JRG@QRtr (hURr G@AG@A@G@AG@AJ0MG@ \(\tr (hURr  
G@AG@A@G@AG@A J0(G@ \(\tr (hURr G@A G@AG@AG@A`J9G@ Qtr (hURr G@AG@AG@A`G@A  
=qJ-eG@ Qtr (hURr G@AG@B G@A`G@AJZG@ =p  
=tr! (hURr" G@A@G@Ap  
=qG@ @  
=qG@A@J/?G@ tr# (hURr\$ G@A@G@AG@A G@AJ`AG@ =p  
=tr% (hURr& G@A`G@B  
=qG@A@G@BJPnUG@ 33333tr' (hURr( G@BG@BG@BG@B  
=qJ@G@!W  
=ptr) (hU  
Rr\* G@BG@CG@B`G@BJJG@!(\tr+ (hURr, G@BG@CG@BG@BJ0%PG@!Qtr- (hURr. G@C G@CG@B  
=qG@C@JpG@!(\tr/ (hU  
Rr0 G@C`G@CG@C G@C@JcG@!(\tr1 (hURr2 G@CG@CG@C G@C`JECG@!G{tr3 (hURr4  
G@C@G@CG@CG@CJjLG@"33333tr5 (hURr6 G@CG@D@G@CG@D  
=qJ2G@"Qtr7 (hURr8 G@DG@D  
=qG@CG@Dp

=qJ+G@"\(\tr9 (hURr: G@D`G@DG@D G@D`J .bG@"fffftr; (hURr< G@D@G@Dp  
=qG@CG@D  
=qJ?G@"Qtr= (hURr> G@DG@D G@CG@D  
=qJ<G@"Qtr? (hURr@ G@DG@D@G@CG@DJ?G@"\(\trA (hURrB G@DG@D G@C  
=qG@CJ`eG@"p  
=qtrC (hURrD G@CG@DG@CG@C  
=qJ`LG@"B)\(\trE (hURrF G@CG@CG@C@G@CJ 8G@"trG (hURrH G@C@G@CG@C@G@CJ+G@"trI (hURrJ  
G@CG@D G@CG@C  
=qJ uG@"trK (hURrL G@CG@D`G@CG@D J~xG@"zGtrM (hURrN G@D G@DG@DG@DJ.gG@#QtrO (hURrP  
G@E@G@E`G@DG@DJ:G@#B)\(\trQ (hURrR G@DG@E G@DG@E J pG@#trS (hU RrT  
G@EG@EG@EG@E@JOG@#QtrU (hU  
RrV G@EG@EG@E@G@EJ`G@\$)\(\trW (hURrX G@EG@F G@EG@E  
=qJP=G@\$)\(\trY (hURrZ G@F@G@FG@FG@FJ G@\$Gztr[ (hURr\ G@F`G@G G@F`G@GJpG@%W  
=ptr] (hURr^ G@GG@G G@FG@F  
=qJ0|G@%\(\tr\_ (hURr` G@FG@FG@FG@FJG@%tra (hURrb G@FG@FG@F`G@F`JVsG@%\(\trc (hURrd  
G@F`G@G G@F`G@FJ\_G@%8Qtre (hURrf G@FG@G G@FG@GJgG@%aGztrg (hURrh  
G@GG@GG@FG@FJLIG@%\(\tri (hURrj G@FG@GG@FG@GJnG@&333333trk (hURrl G@GG@HG@GG@H  
J~G@&p  
=qtrm (hURrn G@H G@HG@HG@H@Jy=G@&=p  
tro (hURrp G@H G@HG@G  
=qG@GJPO=G@&zGtrq (hURrr G@GG@H  
=qG@GG@GJ?G@&333333trs (hURrt G@GG@HG@GG@H`JaG@&)\tru (hURrv G@H@G@HG@H@G@HJ  
CG@&zHtrw (hURrx G@H`G@HG@G@G@GJCG@%\(\try (hURrz G@G`G@GG@G G@G`JP.OG@%p  
=tr{ (hURr| G@G`G@H@G@G`G@H`J`G@&p  
=qtr} (hURr~ G@H@G@HG@GG@G  
=qJ0UaG@&#  
=ptr (hU Rr G@GG@GG@G@G@GJp3G@%\(\tr (hURr G@G`G@GG@G G@GJp",G@&zGtr (hU  
Rr G@GG@H`G@GG@H@J}G@&=p  
tr (hURr G@HG@I G@H G@H  
=qJ0G@'zGtr (hURr G@HG@HG@GG@GJWG@&zGtr (hURr G@F`G@FG@EG@F@JP'G@\$zGtr (hURr  
G@F@G@F`G@EG@FJcG@\$u\(\tr (hURr G@FG@FG@E G@EJ|IG@\$tr (hURr G@EG@EG@E  
G@E@JGG@#\(\tr (hURr G@E@G@EG@EG@EJ`JG@\$tr (hURr G@EG@F G@EG@E  
=qJCG@\$fffftr (hURr G@FG@FG@EG@EJ`;dG@\$8Qtr (hURr G@EG@F G@E@G@EP  
=qJ9G@#Rtr (hURr G@E G@E G@DG@DJ=G@#fffftr (hURr G@DG@DG@DG@DP  
=qJmG@"Gztr (hURr G@D@G@DG@CG@DJYG@#.zGtr (hURr G@DG@DG@D`G@D`JhG@"  
=qtr (hURr G@D@G@D`G@DG@D@JAG@"Rtr (hURr G@D`G@DG@D G@DJ^G@#.zGtr (hURr  
G@DG@EG@D@G@DJ:G@#.zGtr (hU  
Rr G@DG@DG@DG@D@JMoG@"Rtr (hURr G@D`G@DG@CG@CJp2G@"zG{tr (hURr G@CG@D  
G@CG@DJCG@"tr (hU  
Rr G@DG@DG@CG@DP  
=qJzG@"Gztr (hURr G@D`G@DG@CG@D`J|G@"  
=qtr (hURr G@D`G@DG@CG@D`JGG@"  
=qtr (hURr G@D`G@D`G@C`G@CJ,G@"=p  
=tr (hURr G@CG@D`G@CG@D@J|G@"Rtr (hURr G@D`G@DG@CG@DJ G@"tr (hURr  
G@CG@DG@CG@DJ@2LG@"tr (hURr G@CG@CG@CG@CJe?G@"=p  
=tr (hURr G@CG@CG@CG@C`J@zrG@"Qtr (hURr G@C G@C@G@BG@C JPG@!zHtr (hURr G@C  
G@CG@CG@CJ0^G@"=p  
=tr (hURr G@CG@CG@CG@C

=qJ8AG@"Ltr (hURr G@CG@DG@CG@CJB=G@"zG{tr (hURr G@CG@D G@CG@C  
=qJ>LG@"=p  
tr (hURr G@CG@D@G@CG@D@Jq7G@"Rtr (hURr G@D@G@DG@D@G@DJb^G@#.zGtr (hURr  
G@DG@E`G@D  
=qG@E`J0\*dG@#Gztr (hURr G@EG@FG@EP  
=qG@EJ[G@\$W  
=ptr (hURr G@EG@F`G@EG@F  
=qJgpG@\$Qtr (hU Rr G@FG@FG@E  
=qG@FJppjG@\$u\tr (hU  
Rr G@FG@FG@E`G@EJ`SG@\$tr (hURr G@FG@FG@DG@D  
=qJ}G@#zG{tr (hURr G@DG@EG@D@G@D`J0Q8G@"  
=qtr (hURr G@D`G@DG@D`G@D  
=qJ`KYG@#-p  
=tr (hURr G@DG@DG@DG@D0  
=qJPAG@"zHtr (hURr G@D G@DG@DG@DJ0SG@#\tr (hURr G@DG@E@G@DG@E J-G@#  
=ptr (hURr G@E G@EG@EG@E J KG@#zGtr (hURr G@EG@EG@EG@Ep  
=qJ<=G@#G{tr (hURr G@EG@F G@E@G@EJ ^G@\$aGztr (hURr G@EG@F@G@EG@F  
=qJPXG@\$)\tr (hURr G@FG@FG@FG@F`JWG@\$)\tr (hURr G@F@G@FG@FG@F`J,G@\$)\tr (hURr  
G@F`G@FG@EG@F  
=qJ`G@\$)\tr (hURr G@FG@F`G@FG@F@J~?G@\$p  
=tr (hURr G@F@G@FG@F G@F@JG@\$p  
=tr (hU Rr G@F@G@F`G@F G@FP  
=qJ@t(G@\$tr (hU Rr G@F@G@F  
=qG@F@G@F`J>G@\$)\tr (hU Rr G@F`G@Fp  
=qG@FG@F`Jo/G@\$)\tr (hU Rr G@F`G@FG@F`G@F`JN>G@\$)\tr (hU Rr G@F`G@FG@F@G@FJG@\$G{tr (hU  
Rr  
G@F`G@GG@F@G@FJ5G@%QRtr  
(hU Rr  
G@FG@G`G@FG@GJP8G@%p  
=qtr  
(hU  
Rr  
G@G G@GP  
=qG@FG@FJpFG@\$G{tr  
(hU Rr  
G@FG@FG@F@G@F`J`GG@\$)\tr  
(hU Rr  
G@FG@FG@F G@FJ8DG@\$G{tr  
(hU Rr  
  
G@F@G@FG@FG@FJP"G@\$tr  
(hU Rr  
G@F G@F@G@EG@EJ`,G@\$)\tr  
(hU Rr  
G@FG@FG@EG@FP  
=qJ@G@\$tr  
(hU Rr  
G@FG@GG@F G@F`JpmG@\$)\tr

(hU Rr  
G@F`G@FG@F G@Fp  
=qJ 'G@\$Qtr  
(hU Rr  
G@F`G@FG@F`G@FJPeJG@%zGtr  
(hU Rr  
G@FG@FG@F`G@FJ&\*G@%zGtr  
(hU Rr  
G@F G@F  
=qG@FG@F`JF1G@\$(\tr  
(hU Rr  
G@FG@FG@FG@FJ`+G@%333333tr  
(hU Rr  
G@FG@FG@F@G@F@J(&G@\$p  
=tr  
(hU  
Rr  
G@F@G@F`G@EG@F0  
=qJ KG@\$zGtr  
(hU  
Rr  
G@F G@F@G@E  
=qG@E  
=qJ@\G@\$W  
=ptr!  
(hU  
Rr"  
G@EG@FP  
=qG@EG@F JOVG@\$Qtr#  
(hU  
Rr\$  
G@F@G@G@G@F G@FJG@%333333tr%  
(hU  
Rr&  
G@G G@H G@GG@H  
=qJoG@&kQtr'  
(hU  
Rr(  
G@HG@HG@GG@HJ`jG@^(tr)  
(hU  
  
Rr\*  
G@HG@IO  
=qG@H@G@HJG@^(tr+  
(hU  
Rr,  
G@H`G@HG@HG@Hp  
=qJ`UG@&zHtr-

(hU  
Rr.  
G@HG@HG@H@G@H`JpN-G@&Qtr/  
(hU

Rr0  
G@H`G@HG@FG@FJmG@%QRtr1  
(hU

Rr2  
G@F`G@G`G@E@G@G`JG@%zHtr3  
(hU

Rr4  
G@GG@H`G@FG@GJXG@&Qtr5  
(hU

Rr6  
G@G@G@H G@GG@H JNG@&zG{tr7  
(hU

Rr8  
G@H G@HG@H G@H`JJ=G@&Qtr9  
(hU

Rr:  
G@GG@HG@GG@HJG@&\\tr;  
(hU

Rr<  
G@HG@H G@G G@G`J0BG@%zHtr=  
(hU

Rr>  
G@G G@H@G@FG@G  
=qJ0 vG@&333333tr?  
(hU

Rr@  
G@GG@GG@G G@G@JAG@%\\trA  
(hU

RrB  
G@FG@G@G@FG@FJ\\G@%zGtrC  
(hU

RrD  
G@FG@FG@F@G@FJ FG@%zGtrE  
(hU

RrF  
G@FG@GG@FG@FJ0/G@%QRtrG  
(hU

RrH  
G@FG@G@G@FG@G@J.2G@%\\trI  
(hURrJ

G@G G@G`G@FG@G  
=qJ!G@%trK  
(hURrL

G@FG@FG@EG@FJ0G@\$trM  
(hURrN  
G@FG@F@G@EG@EJp\_G@\$(\trO  
(hURrP  
G@EG@FG@EG@EJcCG@\$(\trQ  
(hURrR  
G@EG@F@G@EG@FJPRG@\$trS  
(hURrT  
G@F G@FG@F G@FJMG@\$G{trU  
(hU RrV  
G@FG@GG@F@G@GJP0G@%p  
=qtrW  
(hU  
RrX  
G@FG@GG@FG@G`J #G@%zHtrY  
(hU  
RrZ  
G@G@G@GG@G@G@G@J Q%G@%\tr[  
(hURr\  
G@G@G@G`G@F@G@F`J.G@\$(\trj  
(hURr^  
G@FG@FG@FG@F Jd5G@\$Qtr\_  
(hURr`  
G@F@G@F`G@EG@F`J4G@\$(\tra  
(hURrb  
G@F@G@FG@F@G@F`JH0G@\$fffftrc  
(hURrd  
G@FG@FG@F@G@FJP;G@%#  
=ptre  
(hURrf  
G@FG@G@G@FG@FJ`LG@%#  
=ptrg  
(hURrh  
G@FG@FG@F@G@F`J 5G@\$fffftri  
(hURrj  
G@F`G@FG@F`G@F`JzG@\$fffftrk  
(hURrl  
G@F`G@FG@EG@FJP9G@\$(\trm  
(hURrn  
G@EG@F G@E`G@F  
=qJJG@\$Qtro  
(hURrp  
G@EG@F G@E@G@FJSG@\$(\trq  
(hURrr  
G@EG@F@G@EG@F J`G@\$zGtrs  
(hURrt  
G@F@G@FG@E  
=qG@FJOG@\$(\tru

(hURrv  
G@EG@FG@EG@FJ`5G@%#  
=ptrw  
(hURrx  
G@FG@FG@F@G@FJBG@%Qtry  
(hURrz  
G@FG@FG@DG@E`JG@#G{tr{  
(hURr|  
G@E G@EG@EG@E`J0UaG@#G{tr}  
(hURr~  
G@E@G@EG@DG@DJG@#tr  
(hURr  
G@DG@DG@C0  
=qG@CJ[bG@"W  
=ptr  
(hURr  
G@CG@CG@AG@BJ .G@ Rtr  
(hU  
Rr  
G@BG@B@G@AG@BJgG@ Rtr  
(hURr  
G@AG@B  
=qG@A@G@Ap  
=qJG@ Ltr  
(hURr  
G@A`G@AG@ @ @G@ @JG@Qtr  
(hURr  
G@ @G@AG@ @G@A`JG@ =p  
=tr  
(hURr  
G@A@G@AG@A@G@AJG@ \(\tr  
(hURr  
G@AG@B G@AG@AJPaG@ 33333tr  
(hURr  
G@AG@B G@AG@B J'G@  
=qtr  
(hURr  
G@B G@BG@BG@B@JpdG@!\(\tr  
(hURr  
G@B`G@B`G@AG@AJ0IG@ zGtr  
(hURr  
G@AG@AG@AG@A  
=qJP7G@ kQtr  
(hURr  
G@AG@AG@A G@AP  
=qJ@rRG@ .zGtr  
(hURr  
G@A`G@AG@A0

=qG@AJPSG@ u\(\tr  
(hURr  
G@AG@BG@AG@BJdG@!ffffftr  
(hURr  
G@CG@CG@BG@BJqG@!Qtr  
(hURr  
G@C G@C`G@BG@B  
=qJxG@!zGtr  
(hURr  
G@BG@C G@BG@BJ<CG@!  
=ptr  
(hURr  
G@BG@CG@BG@CJ@7G@!\(\tr  
(hU Rr  
G@CG@CG@BG@B  
=qJ@/G@!zGtr  
(hU  
Rr  
G@B  
=qG@B  
=qG@AG@BJIG@ Rtr  
(hURr  
G@B G@B G@A@G@A@J\*sG@ Qtr  
(hURr  
G@A G@A`G@@G@A@Jp]G@ Qtr  
(hURr  
G@A@G@AG@A G@A JHXG@ tr  
(hURr  
G@@G@AG@@`G@Ap  
=qJtG@ Ltr  
(hURr  
G@A`G@A`G@@G@@JkG@zGtr  
(hURr  
G@@G@@G@@ G@@@0  
=qJ G@=p  
=tr  
(hURr  
G@@G@A@G@@G@A J G@ tr  
(hURr  
G@AG@A@G@@G@@J[OG@zGtr  
(hURr  
G@@G@A G@@G@@J MG@Qtr  
(hURr  
G@@@G@A G@@ G@AJ\G@\(\tr  
(hURr  
G@A G@A`G@AG@A  
=qJ<G@Gztr  
(hURr



G@AG@AG@@ G@@`J`cG@tr  
(hURr  
G@@G@@G@@  
=qG@@JaAG@zGtr  
(hURr  
G@@G@A@G@@G@AJ@?G@\\(tr  
(hURr  
G@A@G@A`G@@G@AJNG@\\(tr  
(hURr  
G@A@G@AP  
=qG@@G@@  
=qJ?G@p  
=qtr  
(hURr  
G@@G@A`G@@G@A J@G@ tr  
(hURr  
G@A G@AG@AG@AJp7G@ \\(tr  
(hURr  
G@A`G@AG@AG@A`JH(G@ =p  
=tr  
(hURr  
G@@G@AG@@@G@@JG@zGtr  
(hURr  
G@@G@@G@@ G@@JeG@  
=ptr  
(hU Rr  
G@@G@A@G@@G@A J[G@ tr  
(hURr  
G@A G@A@G@@G@AJ!)G@\\(tr  
(hU  
Rr  
G@AG@AG@@G@A@J7G@ Qtr  
(hURr  
G@A@G@A`G@@G@A J4G@ tr  
(hURr  
G@@G@A G@@G@A J5G@ tr  
(hURr  
G@A G@A@G@@G@@JpEG@  
=ptr  
(hURr  
G@@G@@G@@G@@J,CG@fffffftr  
(hURr  
G@@`G@A G@@@G@AJp\_G@Gztr  
(hURr  
G@AG@A@G@@G@@J ujG@Qtr  
(hURr  
G@@`G@@G@@`G@@JpRG@()tr  
(hURr

G@@G@A G@@G@AJh+G@Gztr  
(hURr  
G@AG@A G@@G@@JPP(G@ffffftr  
(hURr  
G@@G@AG@@G@AJ;G@Gztr  
(hURr  
G@@G@A`G@@G@A J"oG@ \(\tr  
(hURr  
G@@G@A`G@@G@@J0d9G@  
=ptr  
(hURr  
G@@G@A`G@@G@A@JcG@ (\)tr  
(hURr  
G@AG@AG@A@G@AJ0 UG@ Qtr  
(hURr  
G@AG@BG@AG@A  
=qJPhoG@ zGtr  
(hURr  
G@AG@BG@AG@B`J GzG@!8Qtr  
(hU Rr  
G@B`G@BG@B G@Bp  
=qJ}G@!GzHtr  
(hURr  
G@BG@BG@B G@BP  
=qJ{YG@!(\)tr  
(hU  
Rr  
G@B@G@BG@B G@Bp  
=qJ1QG@!GzHtr  
(hURrG@B`G@BG@B@G@BJ7G@!W  
=ptr(hURrG@B@G@CG@B@G@B`JAG@!8Qtr(hURrG@DG@D`G@C  
=qG@D J`\_G@"(\tr(hURrG@D@G@E@G@DG@E0  
=qJ}G@#(\tr(hURrG@E G@EG@D`G@D  
=qJbG@#ffffftr (hURr  
G@DG@E G@DG@D  
=qJ\SG@#Qtr(hURrG@DG@E G@D`G@D`J0~G@#tr  
(hURrG@DG@EG@DG@E J@p|G@#tr(hURrG@E@G@E  
=qG@EG@E JPEG@#tr(hURrG@EG@E G@DG@EJJ.G@#zGtr(hURrG@EG@E  
=qG@DG@DJh8G@#W  
=ptr(hURrG@DG@DG@D`G@D  
=qJ4G@#GzHtr(hURrG@DG@DG@DG@D JyG@"(\tr(hURrG@DG@DP  
=qG@CG@D J  
\QG@"(\tr(hURrG@D@G@DG@D@G@DJ@dLG@#(\tr(hURrG@DG@EG@D`G@DJQG@#W  
=ptr(hURr G@DG@DG@DG@D J\*;G@"(\tr!(hURr"G@D G@DG@CG@C  
=qJP@G@"33333tr#(hU Rr\$G@CG@DG@CG@D  
=qJ@9G@#GzHtr%(hU  
Rr&G@DG@EG@DG@DJ0GG@#W  
=ptr'(hURr(G@DG@EG@DG@E@JEtG@#Qtr)(hURr\*G@EG@FG@E@G@EJusG@\$B(\tr+(hURr.G@EG@F

G@EG@EJ{G@\$tr-  
(hURr.G@EG@EG@E`G@EJPwGG@\$B\(\tr/(hURr0G@EG@EG@E@G@EJiG@\$B\(\tr1(hURr2G@DG@E  
=qG@DG@D JpG@"(\tr3(hURr4G@Dp  
=qG@DG@CG@D J`G@"(\tr5(hURr6G@D  
G@D@G@CG@CJ`FG@"Qtr7(hURr8G@DG@D@G@C@G@C`JG@"(\tr9(hURr:G@C`G@CG@C G@C`J  
`HG@"(\tr;(hURr<G@CG@CG@C  
=qG@Cp  
=qJMG@"8Qtr=(hURr>G@CG@CG@C`G@C  
=qJp?G@"W  
=ptr?(hURr@G@CG@CG@CG@C  
=qJJG@"u\(\trA(hURrBG@CG@DG@C  
=qG@C  
=qJ0YG@"zGtrC(hURrDG@CG@DG@CG@CJJG@"QtrE(hURrFG@CG@D G@CG@DJPZG@"p  
=trG(hURrHG@DG@D`G@CG@DJ`G@"p  
=trI(hURrJG@CG@DG@CG@DJ`AJG@#p  
=qtrK(hURrLG@DG@EG@DG@DJm=G@#(\trM(hU RrNG@D  
=qG@EG@DG@D  
=qJE5G@#QtrO(hU  
RrPG@DG@DG@D@G@D  
=qJ aG@#ffffftrQ(hURrRG@D  
=qG@E`G@D`G@EP  
=qJ[uG@#G{trS(hURrTG@E`G@E`G@DG@Dji{G@#(\trU(hURrVG@D  
=qG@EG@DG@DJpQG@#(\trW(hURrXG@DG@DG@DG@D  
=qJ/G@#QtrY(hURrZG@DG@E G@DG@DJSG@#p  
=qtr[(hURr^G@DG@DG@CG@CJG@"Qtr](hURr^G@CG@DG@C`G@CJ\*G@"(\tr\_(hURr`G@D  
=qG@DG@DG@D  
=qJ ^G@#p  
=qtra(hURrbG@DG@E@G@DG@EJ/qG@#p  
=trc(hURrdG@E G@E G@DG@EJPG@#p  
=tre(hURrfG@CG@D`G@CG@DJmG@"trg(hURrhG@DG@DG@CG@DJ0G@#B\(\tri(hURrjG@D  
=qG@DG@DG@D  
=qJG@#p  
=qtrk(hURrlG@DG@DG@DG@DJ`08G@#aGztrm(hURrnG@D  
=qG@EG@D`G@D`JPUG@#(\)tro(hURrpG@D`G@DG@CG@D`JpaG@#(\)trq(hURrrG@DG@DG@CG@CJL  
G@"(\trs(hURrtG@CG@CG@C`G@CJPisG@"(\tru(hURrvG@CG@CG@C@G@CJeG@"QRtrw(hURrxG@C@  
G@C@G@BG@C JG@!G{try(hURrzG@BG@CG@BG@CJbVG@"QRtr{(hURr|G@C  
=qG@D@G@C`G@D@JZG@#  
=p  
tr}(hU  
Rr~G@D0  
=qG@D`G@CG@CJKG@"zGtr(hURrG@DG@D G@CG@CJLG@"zGtr(hURrG@CG@DG@C  
=qG@CJPNG@"(\tr(hURrG@CG@CG@CG@CJ@<G@"p  
=qtr(hURrG@CG@CG@C0  
=qG@C  
=qJ0UG@"Qtr(hURrG@C  
=qG@D G@CG@DJaTG@"tr(hURrG@DG@EG@DG@D  
=qJpqG@#zGtr(hURrG@EG@EP  
=qG@DG@DJG@#tr(hURrG@DG@DG@D G@DJBG@#aGztr(hURrG@DG@EG@D0

=qG@DP  
=qJEG@#tr(hURrG@D`G@EG@D  
G@DJC5G@#tr(hURrG@E`G@EG@DG@EJBG@\$33333tr(hURrG@EG@Fp  
=qG@E`G@F`JpVG@%  
=p  
tr(hURrG@F@G@F@G@EG@FJPJG@\$zGtr(hURrG@E  
=qG@F@G@EG@FJ6G@\$zGtr(hURrG@EG@F G@EG@EJ:G@\$p  
=qtr(hURrG@EG@FG@EG@F`Jp`rG@%  
=p  
tr(hU RrG@FG@GG@F`G@GP  
=qJ0#G@%Qtr(hU  
RrG@GG@GG@G`G@GJ2G@&zGtr(hURrG@G`G@GG@FG@GJ`iG@&zGtr(hURrG@G`G@GG@G@G@G  
=qJcG@&B\tr(hU  
RrG@GG@GG@G`G@G`J}G@%G{tr(hURrG@G`G@G  
=qG@FG@F  
=qJ`bG@%p  
=qtr(hURrG@FG@GG@FG@F J`JG@\$tr(hURrG@F@G@FG@EG@FP  
=qJPNG@\$G{tr(hURrG@D`G@E@G@DG@DJ0g?G@#Qtr(hURrG@EG@E@G@D`G@DJhG@#B\tr(hURrG  
@DG@DG@DG@DJSG@#tr(hURrG@EG@E G@DG@E  
=qJiG@#tr(hURrG@EG@EG@DG@E Jh9G@#\tr(hURrG@E G@E@G@DG@D  
=qJ,G@#p  
=qtr(hURrG@DG@DG@D@G@D  
=qJ."G@#p  
=qtr(hURrG@D`G@E@G@D`G@E0  
=qJp.G@#Qtr(hURrG@E@G@E`G@DG@EJ@4G@#p  
=tr(hURrG@EG@E`G@DG@E0  
=qJ!3G@#Qtr(hURrG@DG@EG@DG@EJyG@\$p  
=qtr(hURrG@EG@EG@CG@DJG@#aGztr(hURrG@CG@D@G@C@G@CJbG@"\tr(hURrG@D G@DP  
=qG@C`G@CJPHIG@"\tr(hURrG@CG@D`G@CG@D  
=qJ 8G@"\tr(hU RrG@D G@D@G@CG@CJ4G@"\tr(hU  
RrG@C`G@CG@C G@C`J58G@"8Qtr(hU  
RrG@CG@DG@B  
=qG@C  
=qJ6UG@"p  
=tr(hURrG@DG@DG@CG@CJ 5G@"zGtr(hURrG@DG@D G@CG@CJ`;2G@"p  
=qtr(hURrG@CG@C  
=qG@C@G@C@JCG@"tr(hURrG@C@G@C@G@AG@B@J`G@!(\tr(hURrG@B@G@BG@B  
G@B`Jp(G@!QRtr(hURrG@AG@B`G@AG@B JXG@!zGtr(hURrG@BG@BG@Ap  
=qG@A  
=qJPCG@ \tr(hURrG@A G@AG@@G@A@JpiNG@ B\tr(hURrG@AG@BG@A`G@AJ2(G@ p  
=tr(hURrG@B`G@CG@B G@BJP@G@!tr(hURrG@BG@C0  
=qG@BG@C  
=qJ+G@!G{tr(hURrG@CG@C  
=qG@B`G@BJpRG@!\tr(hURrG@BG@BG@BG@B JBG@!zGtr(hURrG@BG@BG@BG@BJPy6G@!p  
=qtr(hU RrG@B@G@BG@B@G@BJPd-G@!p  
=qtr(hU RrG@BG@BG@AG@BJ "G@ \tr(hU RrG@AG@BG@AG@AJP/G@ (\tr(hU RrG@AG@B`G@A  
=qG@B0  
=qJp G@!#

=ptr(hU  
RrG@BG@BG@AG@AJp)G@ (\tr(hU RrG@BG@B  
=qG@@G@AJ5aG@ Qtr(hU RrG@A@G@A@G@@G@AJ6G@ Qtr(hU  
RrG@A@G@A`G@@G@@J0J5G@tr(hU RrG@@G@A G@@G@AJR>G@ Qtr(hU  
RrG@AG@AG@@G@@J0s\*G@tr(hU RrG@@G@@G@@G@@@  
=qJCG@zG{tr(hU RrG@@G@@G@@G@@@J`cG@  
=ptr(hU RrG@@ G@@ G@?@G@?QJ07G@tr (hU Rr  
G@@G@@@G@?G@?JpSG@zGtr(hU RrG@?G@?G@=G@>@JKG@Qtr  
(hU RrG@>G@>G@=@G@>JVG@GzHtr(hU RrG@>G@>G@=G@=JQ3G@  
=p  
tr(hU RrG@>G@>G@<G@<@JMG@  
=ptr(hU RrG@<G@=G@;@G@=J\_G@QRtr(hU  
RrG@=G@?G@=@G@>J)UG@\tr(hU  
RrG@?G@@G@=G@=QJG@Qtr(hU  
RrG@=G@=G@:G@;JYG@p  
=qtr(hU  
RrG@:G@<G@:@G@<JtG@fffftr(hU  
RrG@;G@<G@;G@<J 6G@fffftr(hU  
Rr G@<G@=@G@<@G@=QJ0!G@p  
=qtr!(hU  
Rr"G@<G@=G@;G@<JAG@fffftr#(hU  
  
Rr\$G@;@G@<G@:G@:JPG@tr%(hU  
Rr&G@:G@;QG@9G@;JpG@(\tr'(hU  
Rr(G@<@G@<G@;G@<@J|G@  
=ptr(hU  
Rr\*G@<G@<G@:QG@;JmG@(\tr+(hU  
Rr,G@;G@;G@8@G@9JG@\tr-(hU  
Rr.G@9@G@:G@9G@:JG@tr/(hU  
Rr0G@:G@<G@:G@<J0G@Gztr1(hU  
Rr2G@?@G@?G@>@G@?^QJG@\tr3(hU  
Rr4G@?G@?G@>G@?QJ0G@QRtr5(hU  
Rr6G@?G@?G@>@G@?J0[G@=p  
=tr7(hU  
Rr8G@>G@?G@>G@>JMG@\tr9(hU  
Rr:G@>@G@?@G@=QG@>JSG@GzHtr;(hU  
Rr<G@=G@?@G@=G@>JiIG@GzHtr=(hU  
Rr>G@>@G@>G@=G@=QJp`CG@(\tr?(hU  
Rr@G@=G@>G@<QG@>^QJ5G@  
=ptrA(hU  
RrBG@>G@?QG@>@G@>JYQG@trC(hURrDG@>G@?G@=G@>J1G@\trE(hURrFG@>G@@@0  
=qG@>G@?J9QG@QtrG(hURrHG@@@  
G@@G@@G@@JpdG@\trI(hURrJG@@G@A@G@@G@@JeG@trK(hURrLG@@G@@G@@P  
=qG@>@JnG@\trM(hURrNG@@G@AG@@G@A@JIG@ B\trO(hU RrPG@AG@AG@A@G@AJ0^IG@ p  
=trQ(hURrRG@AG@B`G@AG@B J@9OG@!zGtrS(hU  
RrTG@B G@B@G@AG@BJMG@ \trU(hURrVG@AG@BG@AG@BJ  
hG@!p  
=qtrW(hURrXG@B`G@BG@AG@BJOXG@ \trY(hURrZG@AG@BG@A`G@A

=qJ0cG@ Qtr[(hURr\G@AG@B0  
=qG@AG@B0  
=qJVzG@!33333tr](hURr^G@B@G@B`G@AG@AJpSG@ zHtr\_(hURr`G@AG@B G@A`G@B  
=qJ&CG@!zGtra(hURrbG@B G@BG@BG@B0  
=qJ)G@!33333trc(hURrdG@BG@BG@BG@B`J ,G@!aGztre(hURrfG@BG@C G@B`G@BJZG@!p  
=trg(hURrhG@BG@C@G@B`G@B`J0a\_G@!aGztri(hURrjG@BG@BG@B G@B`JEG@!aGztrk(hURrlG@B  
G@BG@B G@B`JpBG@!aGztrm(hURrmG@BG@C G@BG@C  
=qJ`^ZG@"  
=p  
tro(hURrpG@BG@C`G@BG@C@J5SSG@"333333trq(hURrrG@C@G@D G@B  
=qG@D  
=qJZwG@"G{ trs(hURrtG@DG@DG@D@G@DJ"G@#tru(hURrvG@DG@E`G@DG@E@JPG@\$trw(hU  
RrxG@E G@E@G@DG@DJG@#p  
=try(hURrzG@DG@DG@DG@DJG@"Qtr{(hURr|G@CG@DG@CG@C  
=qJP5G@"p  
=tr}(hU  
Rr~G@CG@DG@CG@D`JWG@#GzHtr(hURrG@D G@D@G@CG@C  
=qJ/G@"(\tr(hURrG@CG@D@G@CG@D  
=qJPwGG@"G{tr(hURrG@DG@E@G@D`G@E J@xG@#G{tr(hURrG@E@G@E@G@D  
=qG@D  
=qJLG@#tr(hURrG@DG@F@G@DG@FJG@\$tr(hURrG@F  
G@FG@EG@FJG@%GzHtr(hURrG@F`G@FG@FG@FJ% G@\$tr(hURrG@FG@F  
G@EG@EJ.8G@\$33333tr(hURrG@EG@FG@EG@EJH5G@\$zGtr(hURrG@EG@EG@E`G@EJ"G@\$W  
=ptr(hURrG@EG@EG@E`G@EJpOG@\$W  
=ptr(hURrG@E`G@FG@EG@EJTG@\$zGtr(hURrG@EG@F G@EG@EJ`QG@\$W  
=ptr(hURrG@EG@F G@EG@EJ?MG@\$u\(\tr(hURrG@EG@FG@EG@EJ G@\$u\(\tr(hURrG@EG@E  
=qG@E@G@EJDwG@\$u\(\tr(hU RrG@F G@GG@EG@FJG@%ffffftr(hU  
RrG@FG@GG@FG@G  
=qJvG@&Ltr(hURrG@GG@GG@GG@GJ@G@&8Qtr(hURrG@GG@G`G@GG@G  
JrG@%Gztr(hURrG@G@G@G`G@GG@G`JhG@&Qtr(hURrG@GG@IG@G`G@HJ%G@'Qtr(hURrG@J@G@  
J`G@HG@IJBG@=(p  
=tr(hURrG@H`G@I`G@H@G@I  
J@G@`\(\tr(hURrG@HG@IG@HG@I`JG@(\tr(hURrG@IG@J@G@I@G@IjgG@=(p  
=tr(hURrG@IG@J G@IG@IJ`\$G@(zG{tr(hURrG@IG@J`G@IG@J  
=qJG@(\)tr(hURrG@JG@J  
=qG@JG@JJ@zG@)Ltr(hURrG@JG@KG@JG@K@JG@)zHtr(hURrG@K G@K@G@J  
G@JJuG@)kQtr(hURrG@JG@KG@JG@KJG@\*p  
=tr(hURrG@KG@LG@K`G@KJhG@\*p  
=tr(hURrG@KG@L  
=qG@KG@KJG@\*\(\tr(hURrG@KG@LG@KG@KJG@\*#  
=ptr(hURrG@KG@MG@K`G@LJeG@+QRtr(hURrG@LG@M G@L@G@Lp  
=qJyG@\*ffffftr(hURrG@LG@M`G@KG@LJG@+QRtr(hURrG@LG@N G@LG@M  
=qJ 4G@,QRtr(hURrG@NG@NG@MG@N  
=qJ /G@-Qtr(hURrG@NG@NG@M  
=qG@NJzG@,aGztr(hU  
RrG@NG@N G@MG@NJ0SG@,aGztr(hURrG@NG@NG@L`G@L  
=qJG@+Qtr(hURrG@LG@M@G@LG@L  
=qJPeG@+QRtr(hURrG@LG@N G@L

=qG@NJM{G@,p  
=qtr(hURrG@MG@NG@MG@NJPtG@,Qtr(hURrG@NG@O  
G@M`G@MJ)hG@+\(tr(hURrG@MG@NG@M@G@MJ ~G@,QRtr(hURrG@N  
G@N@G@LG@MJG@+zG{tr(hURrG@LG@M`G@L@G@M JTG@+tr(hURrG@M G@M@G@LG@M  
JC\_G@+tr(hURrG@M G@M@G@L G@LJ{G@+#  
=ptr(hURrG@LG@MG@LG@LJDG@+aGztr(hURrG@MG@M`G@LG@M0  
=qJt0G@+)tr(hURrG@MG@OG@MG@O  
=qJpG@-Qtr(hURrG@PG@PgZHG@Op  
=qG@OJG@-\(tr(hURrG@OG@PG@OG@PJpG@/Gztr(hURrG@PG@QG@P@G@P@J`G@.tr(hURrG@P  
G@P0G@O G@OJ0\_G@.tr(hURrG@OG@OG@O@G@Op  
=qJ@G@-tr(hU  
RrG@O`G@PG@O`G@PJj\_G@/ffffftr(hURrG@PG@PG@P  
G@PPJ{G@.Qtr(hURrG@PpG@PG@PPG@PJoG@/ffffftr(hURrG@PpG@QG@PpG@PJtG@0)\(tr(hURr  
G@PG@QG@PpG@Q`J`hG@0xQtr  
(hURr  
G@QPG@Q`G@PzHG@PJoG@0)\(tr  
(hURr  
G@QG@Q0G@OG@P0J@G@.zGtr  
(hURr  
G@PG@P0G@O G@OJG@-G{tr  
(hURr  
G@OG@P@G@OG@P J#JG@.\(tr  
(hURr  
  
G@P0G@QG@P0G@QJG@0  
=ptr  
(hURr  
G@QG@QG@Q G@QPJgG@0h)tr  
  
(hURr  
G@QPG@QG@PG@QJ \*G@0)\(tr  
(hURr  
G@QG@Q`G@PG@Q J\@G@0:G{tr  
(hURr  
G@Q@G@R0G@Q G@R0JG@1=p  
=tr  
(hURr  
G@R G@R0G@QG@QJG@0  
=ptr  
(hURr  
G@QG@RG@Q`G@QJ[G@0  
=qtr  
(hURr  
G@QG@QG@Q0G@QWzHJpTG@0p  
=qtr  
(hURr  
G@QPG@QG@Q0G@QJp`G@0  
=ptr

(hU Rr  
G@QpG@QG@QG@Q0JQAG@0J=p  
tr  
(hU  
Rr  
G@Q G@QPG@PG@PzHJ`vG@/33333tr  
(hURr  
G@PG@QzHG@PG@QJG@0zGtr!  
(hURr"  
G@QG@RPG@QpG@QJ G@1tr#  
(hURr\$  
G@NG@P G@NG@O JG@-tr%  
(hURr&  
G@OG@P G@O@G@PJ dRG@.u\{tr'  
(hURr(  
G@P@G@P@G@OG@OJ G@-G{tr)  
(hURr\*  
G@O`G@OG@N`G@NJ`G@,Qtr+  
(hURr,  
G@NG@NG@MG@M  
=qJG@,B\{tr-  
(hURr.  
G@MG@OG@M`G@NJp:G@-#  
=ptr/  
(hURr0  
G@O G@OG@N G@NJ@G@-#  
=ptr1  
(hURr2  
G@NG@OG@N@G@N`Jp9G@,tr3  
(hURr4  
G@MG@MG@M@G@M@JG@+Qtr5  
(hURr6  
G@M@G@MG@LG@MP  
=qJ`DG@+zHtr7  
(hURr8  
G@M@G@N G@M G@M JpG@+tr9  
(hURr:  
G@LG@M G@K@G@KJG@\*\{tr;  
(hURr<  
G@HG@HG@GG@GJ?G@&fffffftr=  
(hURr>  
G@GG@HG@GG@HJ G@'8Qtr?  
(hURr@  
G@HG@HG@H G@HJ G@'8QtrA  
(hURrB  
G@H@G@I@G@H G@I JpsG@'RtrC  
(hURrD  
G@IG@IG@I@G@IP



=qJ G@(trE  
(hURrF  
G@ΓG@ΓG@HG@HJ`G@'zGtrG  
(hU RrH  
G@IG@IG@HG@ΓJ  
G@(\(trI  
(hU  
RrJ  
G@IG@JG@ΓG@IJG@(GzHtrK  
(hU  
RrL  
G@J G@JG@IG@J`JG@)trM  
(hURrN  
G@J`G@JG@J@G@JJvvG@)\(trO  
(hURrP  
G@IG@JG@HG@I@JG@'  
=qtrQ  
(hURrR  
G@IG@IG@H@G@HJ PG@'8QtrS  
(hURrT  
G@H`G@H`G@G@G@GJG@&GzHtrU  
(hURrV  
G@GG@GG@FG@F JG@%QtrW  
(hURrX  
G@FG@G@G@F`G@FJ G@%trY  
(hURrZ  
G@FG@G@G@FG@G J+|G@%G{tr[  
(hURr\  
G@G@G@G`G@F`G@F  
=qJqG@%p  
=qtr]  
(hURr^  
G@FG@GG@FG@F  
=qJ,5G@%tr\_  
(hURr`  
G@GG@G G@FG@GJps]G@%\(\tra  
(hURrb  
G@G G@GG@F  
=qG@GJG@&W  
=ptrc  
(hURrd  
G@GG@GG@G@G@G  
=qJpkVG@&  
=ptre  
(hURrf  
G@GG@GG@G G@GJvG@&W  
=ptrg  
(hURrh

G@GG@HG@G`G@HJPxG@'ffffftri  
(hURrj  
G@HG@HG@H@G@H  
=qJ@dG@`W  
=ptrk  
(hURrl  
G@HG@HG@GG@HJHG@&trm  
(hURrn  
G@H G@H G@G@G@GP  
=qJ[G@&(\)tro  
(hURrp  
G@G G@GG@F  
=qG@G  
=qJ0^SG@%Qtrq  
(hU  
Rrr  
G@GG@G  
=qG@FG@GJ k[G@%(\trs  
(hURrt  
G@FG@FG@F G@FP  
=qJfG@%333333tru  
(hURrv  
G@FG@F`G@DG@E0  
=qJ`G@\$#  
=ptrw  
(hU  
Rrx  
G@E@G@EG@DG@E  
=qJosG@\$Qtry  
(hURrz  
G@E`G@E`G@D`G@D  
=qJ0zG@#=p  
tr{  
(hURr|  
G@DG@E G@DG@EJ[G@#(\tr}  
(hURr~  
G@E G@EG@DG@E  
=qJG@\$Qtr  
(hURr  
G@DG@E G@DG@DJ@aG@#  
=ptr  
(hURr  
G@DG@EG@D`G@EJpNG@#(\tr  
(hURr  
G@EG@E@G@DG@EJppG@#(\tr  
(hURr  
G@DG@E G@DG@DJqG@#  
=ptr

(hURr  
G@EG@EG@DG@E0  
=qJ`|G@\$#  
=ptr  
(hURr  
G@E`G@EG@E G@EJ0G@\$p  
=qtr  
(hURr  
G@E@G@E`G@DG@E@JeRG@\$333333tr  
(hURr  
G@E G@E@G@D G@DJ{G@#Qtr  
(hURr  
G@E G@EG@DG@E@J~jG@\$333333tr  
(hURr  
G@E G@E`G@DG@E J`AG@\$zGtr  
(hURr  
G@E G@EG@DG@E  
=qJ.G@\$tr  
(hURr  
G@EG@GG@E`G@F  
=qJG@%zGtr  
(hURr  
G@FG@GG@FG@G`J@hG@&8Qtr  
(hU Rr  
G@GG@H G@G@G@Gp  
=qJ@v{G@&GzHtr  
(hU  
Rr  
G@GG@H G@G`G@GJUG@&u)(tr  
(hURr  
G@GG@GG@GG@G`J@OG@&8Qtr  
(hURr  
G@GG@GG@G G@G`J0HG@&8Qtr  
(hURr  
G@G`G@G`G@FG@FJ0CKG@%Qtr  
(hURr  
G@FG@FG@EG@EJyG@\$zHtr  
(hURr  
G@EG@F@G@E G@E@JrG@\$333333tr  
(hURr  
G@FG@F  
=qG@EG@Fp  
=qJIG@%QRtr  
(hURr  
G@FG@G G@FG@GJp5FG@%(\tr  
(hURr  
G@FG@G G@FG@GJ<;G@%(\tr  
(hURr

G@G G@G@G@F@G@FJHG@%aGztr  
(hURr  
G@FG@FG@F@G@FJGG@%aGztr  
(hURr  
G@FG@FG@FG@FJPSG@%tr  
(hURr  
G@FG@FG@F`G@Fp  
=qJ@(G@%QRtr  
(hURr  
G@FG@FG@F@G@FJ?G@%Qtr  
(hURr  
G@FG@G`G@FG@G@J02G@&tr  
(hURr  
G@G@G@Gp  
=qG@FG@G JJ8G@%G{tr  
(hURr  
G@GG@HG@FG@H  
=qJ0G@'W  
=ptr  
(hURr  
G@HG@I G@HG@IJ  
G@`\ (tr  
(hURr  
G@HG@HG@H G@H@J?7G@'  
=p  
tr  
(hURr  
G@H`G@I G@GG@HJpgxG@'Qtr  
(hURr  
G@HG@IG@H  
=qG@I0  
=qJsG@'  
=qtr  
(hURr  
G@ΓG@IG@IG@I@J0JgG@(tr  
(hU Rr  
G@I@G@IG@HG@Γ JoTG@(Qtr  
(hURr  
G@ΓG@J G@I@G@IJMG@(zGtr  
(hU  
Rr  
G@JG@KG@JG@JJ` {G@)kQtr  
(hURr  
G@K`G@KG@J  
=qG@Kp  
=qJPtmG@\*zGtr  
(hURr  
G@KG@KG@JG@JJOG@)Ltr

(hURr  
G@J`G@K G@J G@JJpVG@)Ltr  
(hURr  
G@HG@I  
=qG@H@G@I@JPG@(  
=p  
tr  
(hURr  
G@IG@IG@I@G@IJG@(GzHtr  
(hURr  
G@J@G@K  
=qG@JG@JJyG@)tr  
(hURr  
G@KG@K`G@JG@K JZG@)  
=ptr  
(hURr  
G@KG@KG@J`G@JJp>G@)=p  
=tr  
(hURr  
G@JG@JG@J@G@JJ7G@)=p  
=tr  
(hURr  
G@JG@KG@J`G@KJ 6G@)Qtr  
(hURr  
G@KG@K G@J  
=qG@JJ:G@)\(\tr  
(hURr  
G@JG@J  
=qG@J@G@JJ=G@)=p  
=tr  
(hURr  
G@JG@JG@J G@JJ@\$G@)=p  
=tr  
(hU Rr  
G@J`G@JG@JG@J@JG%G@)tr  
(hU Rr  
G@J`G@J`G@I  
=qG@IJAG@(Qtr  
(hU Rr  
G@IG@IG@I`G@IJ\*G@(GzHtr  
(hU Rr  
G@IG@IG@I@G@IJ x+G@(Qtr  
(hU Rr  
G@IG@JG@IG@JJ>EG@)\(\tr  
(hU  
Rr  
G@J`G@J  
=qG@HG@I

=qJcG@'Gztr  
(hU Rr  
G@ΓG@IG@HG@I@JRaG@(  
=p  
tr  
(hU Rr  
G@IG@IG@HG@IP  
=qJPAG@(Qtr  
(hU  
Rr  
G@IG@I G@H@G@HP  
=qJ)[G@'(\)tr  
(hU Rr  
G@HG@HG@G@G@GJcpG@&tr  
(hU Rr  
G@GG@HG@G`G@HJPJG@'W  
=ptr  
(hU Rr  
G@H`G@I@G@H@G@I  
=qJ@BG@'Gztr  
(hU RrG@I G@I@G@HG@HJDaG@'33333tr(hU RrG@HG@IG@HG@IP  
=qJfG@(Qtr(hU RrG@IG@ΓG@HG@HJ /G@'zGtr(hU RrG@HG@I0  
=qG@H G@I J:G@'  
=qtr(hU RrG@I G@I@G@HG@I@J G@(  
=p  
tr (hU Rr  
G@I G@I G@HG@II'G@'Rtr(hU RrG@IG@ΓG@H`G@HJPB"G@'W  
=ptr  
(hU RrG@HG@HG@HG@HJ"G@'zGtr(hU  
RrG@HG@IG@HG@ΓJGG@(\)tr(hU  
RrG@IG@IG@HG@HJ G@'33333tr(hU  
RrG@IG@IG@GG@GJbG@&p  
=tr(hU  
RrG@HG@H`G@GG@H J+G@&G{tr(hU  
RrG@HG@H`G@GG@H  
=qJ#G@&Qtr(hU  
RrG@H  
=qG@H@G@G@G@H J%^G@&G{tr(hU  
RrG@H G@H`G@GG@HJHG@&(\)tr(hU  
  
RrG@H`G@HG@G`G@GJUG@&p  
=tr(hU  
Rr G@H  
=qG@Hp  
=qG@G@G@H@J}AG@'tr!(hU  
Rr"G@HG@I G@H`G@H  
=qJE=G@'\(tr#(hU  
Rr\$G@I@G@J@G@IG@J@J-G@)tr%(hU

Rr&G@J@G@KG@J G@JmG@)zG{tr'(hU  
Rr(G@JG@JG@IG@J0  
=qJ`RG@(  
=qtr)(hU  
Rr\*G@K  
=qG@KG@K@G@KJG@\*33333tr+(hU  
Rr,G@KG@K  
=qG@K G@K`J?G@\*zGtr-(hU  
Rr.G@KG@L G@K@G@K@JqG@)\(tr/(hU  
Rr0G@KG@KG@J`G@J  
=qJB\G@)Ltr1(hU  
Rr2G@JG@JG@IG@J  
=qJ0<aG@(Rtr3(hU  
Rr4G@IG@J G@I`G@IJx:G@(ffffftr5(hU  
Rr6G@IG@IG@I`G@IJ\*G@(Qtr7(hU  
Rr8G@IG@JG@I`G@IJM7G@(  
=ptr9(hU  
Rr:G@JG@J`G@HG@HJPG@'33333tr;(hU  
Rr<G@I`G@IG@IG@IJ~G@(Qtr=(hURr>G@IG@JG@I@G@IJmG@(GzHtr?(hURr@G@I`G@I`G@H@G@H  
J  
jG@'33333trA(hURrBG@HG@I@G@H`G@H`JuG@'8QtrC(hURrDG@HG@HG@GG@HJ/G@&(\trE(hURrFG  
@H@G@I@G@H  
G@HJG@'33333trG(hURrHG@IG@JG@IG@JJ@G@)\(trI(hURrJG@JG@K@G@JG@JJ`YG@)trK(hURrLG@  
K G@K`G@JG@K@J [G@)\(trM(hU  
RrNG@KG@K@G@JG@K  
=qJQeG@)zHtrO(hURrPG@K G@KG@KG@K`J  
fG@\*zGtrQ(hURrRG@K@G@K`G@HG@IJ`,G@'RtrS(hURrTG@IG@J@G@IG@J  
=qJP(G@(GztrU(hURrVG@IG@IG@HG@IJG@(\u\trW(hURrXG@IG@JG@I  
G@I@J`G@(\trY(hURrZG@I@G@IG@I@G@IJ`V:G@(W  
=ptr[(hURr`G@IG@IG@I G@IJ@q5G@(\u\tr](hURr^G@IG@J  
G@IG@IJP\*G@(\u\tr\_(hURr`G@IG@JG@IG@IJLG@(zGtra(hURrbG@IG@IG@I@G@IJ"G@(\u\trW  
=ptrc(hURrdG@I@G@IG@I@G@I`JPG@(\u\trW(hURrfg@I`G@JG@IG@IJ@G@(\u\trW(33333trg(hURrhG@JG@JG  
@I  
G@I@JpW8G@(\u\trI(hURrjG@I`G@I`G@IG@I@J6,G@(\u\trK(hURrlG@I@G@IG@HG@IJA6G@'\u\trm(hURrnG  
@HG@HG@H@G@H`J`kG@'GzHtro(hU RrpG@HG@IG@H`G@H  
=qJo5G@'\u\trq(hU  
RrrG@HG@HG@H@G@H  
=qJpBG@'\u\trS(hURrtG@HG@HG@H@G@HJ@.G@'ffffftru(hURrvG@H  
=qG@HG@HG@H  
=qJ@Q2G@'zGtrw(hU  
RrxG@HG@I`G@HG@I0  
=qJ'4G@'\u\trY(hURrzG@I0  
=qG@I`G@IG@I@Jb\*G@(\u\tr{(hURrlG@I@G@IG@I G@I@J@q5G@(\u\tr)(hURr~G@I  
G@JG@IG@IJeG@(\u\tr(33333tr(hURrG@IG@IG@I`G@I`J?G@(\u\tr(8Qtr(hURrG@IG@IG@I G@I  
JFG@'G{tr(hURrG@I@G@IG@IJA8G@(\u\tr(zGtr(hURrG@JG@JG@IG@J JfG@(\u\trW  
=qtr(hURrG@J`G@KG@J G@Kp  
=qJSIG@\*333333tr(hURrG@K`G@KG@K@G@KJ[G@\*B\(\u\tr(hURrG@KG@LG@KG@L`J@jdG@+tr(hURrG  
@L

=qG@MG@LG@L0  
=qJEIG@\*Qtr(hURrG@KG@MG@KG@MJG@,ffffftr(hURrG@NG@N G@M  
G@MJgG@,()tr(hURrG@M`G@MG@LG@MJA>G@+zGtr(hURrG@LG@MG@LG@M  
=qJ2MG@,8Qtr(hURrG@M@G@NG@M@G@N@J0G@,Gztr(hU RrG@N@G@O G@N G@O JqG@-Qtr(hU  
RrG@NG@O@G@NG@O J0kG@-Qtr(hU  
RrG@O G@O`G@NG@OJp:G@-tr(hURrG@O G@P0G@O G@P J\_G@.tr(hURrG@P  
G@P@G@OG@OJ0G@.QRtr(hURrG@OG@PG@O@G@O`JG@-  
\\tr(hURrG@PG@Q@G@P0G@P0JyG@.Qtr(hURrG@P  
G@PPG@PG@PJ0SrG@.\\tr(hURrG@PG@PG@NG@N  
=qJiG@-.zGtr(hURrG@NG@OG@NG@OJdG@.QRtr(hURrG@PG@P0G@OG@P JpKG@.tr(hURrG@P  
G@PpG@PG@P`zHJ`G@.  
=ptr(hURrG@P0G@PPG@PG@P J-G@.tr(hURrG@P0G@PWzHG@OG@PPJP^G@/#  
=ptr(hURrG@P0G@PpG@OG@OJpNG@.333333tr(hURrG@OG@OG@O`G@OJ/G@.p  
=qtr(hURrG@PG@PPG@OG@P0JpNG@.Qtr(hURrG@P0G@PG@P G@PpJ  
>VG@/aGztr(hURrG@PpG@PG@P@G@PpJ;iG@/aGztr(hURrG@PG@PG@PGzHG@PzHJpXG@/\\tr(hURrG  
@PpG@PG@PG@PzHJ2G@.tr(hURrG@PG@P0G@O`G@PJPG@.\\tr(hU  
RrG@PG@PG@OG@O  
=qJ+/G@.#  
=ptr(hURrG@OG@OG@O G@Op  
=qJBG@.Qtr(hURrG@OG@P`G@OG@PPJ>KG@/#  
=ptr(hU  
RrG@PPG@PPG@OG@PJ@)G@.zGtr(hURrG@OG@PG@OG@PzHJp'G@.\\tr(hURrG@PG@P  
G@O`G@O`JC%G@.Qtr(hURrG@O`G@OG@NG@OJ`H4G@-\\tr(hURrG@O@G@P0G@O  
G@PzHJGG@.ffffftr(hURrG@P0G@P`G@P  
G@P@JRG@/zGtr(hURrG@PG@PG@PpG@PzHJk]G@/Qtr(hURrG@PG@Q G@PPG@Q  
J]G@0aGztr(hURrG@QG@QG@QG@QwzHJ@ }G@0\\tr(hURrG@QG@QG@QG@Q JBG@0aGztr(hURrG@Q  
G@Q@G@PG@PJp1G@0#  
=ptr(hURrG@PG@Q G@PG@PJ0G@0zGtr(hURrG@PG@QG@PG@PzHJ@R6G@/p  
=tr(hURrG@PG@PG@P0G@P@J>G@/zGtr(hURrG@P G@P`G@OG@OJ@  
G@.aGztr(hURrG@OG@PG@OG@PJ~IG@.tr(hU RrG@OG@PG@OG@OJu;G@.tr(hU  
RrG@PG@P0G@OG@OJ  
CG@.tr(hURrG@OG@PG@OG@OJGG@.B\\tr(hURrG@OG@OG@NG@O`JSG@.Qtr(hU  
RrG@OG@OG@OG@O  
=qJc+G@.333333tr(hURrG@O`G@OG@NG@O  
=qJG@.QRtr(hURrG@OG@OG@O`G@Op  
=qJ.G@.zGtr(hURrG@OG@PG@OG@OJG,G@.tr(hURrG@OG@OG@O`G@OJ@ @G@.#  
=ptr(hURrG@OG@OG@OG@OJG@.B\\tr(hURrG@OG@OG@OG@OJpG@.#  
=ptr(hURrG@OG@P@G@OG@P@JurG@/zGtr(hURrG@P@G@P@G@PG@P JIBG@.  
=ptr(hURrG@P0G@PPG@OG@PJSCG@.tr(hURrG@O  
=qG@PG@N@G@NJ9G@-.zGtr (hURr  
G@NG@NG@LG@M  
=qJG@+tr(hURrG@M G@MG@MG@M J+tG@+\\tr  
(hURrG@LG@MG@LG@MJ1WG@,8Qtr(hURrG@MG@MG@M0  
=qG@M`JP9IG@,tr(hURrG@M`G@MG@M@G@MJ?G@,8Qtr(hURrG@MG@NG@MG@N`J7G@-  
\\tr(hURrG@NG@NG@LG@LJ}G@+aGztr(hURrG@LG@LG@K`G@K  
=qJ@G@\*Qtr(hU RrG@LG@M G@KG@LJ hG@+aGztr(hU  
RrG@LG@LG@KG@KJPG@\*=p  
tr(hU



RrG@KG@L`G@KG@L@JP+CG@+Qtr(hURr G@LG@MG@LG@M`JOG@,tr!(hURr"G@MG@Np  
=qG@LG@N@JyvG@,  
=qtr#(hURr\$G@N G@N`G@M@G@MJOG@,8Qtr%(hURr&G@MG@MG@LG@L`J@pG@+#  
=ptr'(hURr(G@LG@LG@LG@L JMbG@\*fffftr)(hURr\*G@L G@MG@L G@L  
=qJ0]G@+(tr+(hURr,G@LG@M G@LG@LJcG@+B)(tr-(hURr.G@LG@M  
G@LG@L@J5G@+Qtr/(hURr0G@LG@L G@KG@KJLG@\*)tr1(hURr2G@KG@KG@JG@K J\_G@)  
=qtr3(hURr4G@K G@LG@K G@LJIG@+B)\(tr5(hURr6G@LG@N G@L@G@N  
=qJ0G@,)\(tr7(hURr8G@NG@N`G@M G@MJIG@,W  
=ptr9(hURr:G@MG@NG@MG@N@JP+CG@,  
=qtr;(hURr<G@N@G@NP  
=qG@MG@N@J0hbG@,  
=qtr=(hURr>G@N`G@O  
=qG@N@G@NJPaG@-p  
tr?(hURr@G@NG@O G@N@G@N`Jp:^G@-\(trA(hURrBG@NG@Op  
=qG@NG@OJ@llG@-)\trC(hURrDG@OG@O`G@NG@O JP1G@-zHtrE(hURrFG@O G@OG@NG@O  
J0A\*G@-zHtrG(hU  
RrHG@O@G@OG@O G@O`J!5G@.QtrI(hURrJG@O`G@OG@N G@N  
=qJUG@-\(trK(hURrLG@NG@NG@N@G@NP  
=qJ6BG@-trM(hURrNG@NG@NG@NG@N0  
=qJpFG@,GztrO(hURrPG@N`G@N`G@MG@M  
=qJPGG@,fffftrQ(hURrRG@MG@N G@MG@NJ^G@,33333trS(hURrTG@N G@N G@M`G@M  
=qJ0)KG@,GzHtrU(hURrVG@MG@MG@MG@MJ~G@,u)\(trW(hURrXG@MG@MG@M`G@MJ;4G@,W  
=ptrY(hURrZG@MG@N G@MG@N Jp,TG@,Rtr[(hURr\G@NG@N  
G@MG@MJEG@,u)\(tr](hURr^G@MG@NP  
=qG@MG@MJ/aG@,zGtr\_(hURr`G@LG@MG@LG@LJPUG@+\(tra(hURrbG@LG@LG@L  
G@L@JTG@+zGtrc(hURrdG@L@G@L@G@KG@K  
=qJG@)  
=qtre(hURrfG@K G@K`G@JG@K@JwbG@\*Qtrg(hURrhG@K`G@KG@K G@Kp  
=qJ`=G@\*Ltri(hURrjG@KG@KG@KG@K JP8G@\*trk(hU RrlG@K G@K G@JG@KJ0W7G@)Gztrm(hU  
RrnG@KG@K`G@JG@JJEG@)\(tro(hURrpG@JG@K G@JG@J  
=qJLG@)Rtrq(hURrrG@K@G@KG@K G@Kp  
=qJ4G@\*.zGtrs(hURrtG@KG@KG@J@G@JP  
=qJkgG@)8Qtru(hURrvG@IG@JG@H`G@HJ-G@'trw(hURrxG@HG@HG@GG@GJ  
G@&\(try(hURrzG@GG@HG@F`G@FJqG@%zGtr{(hURr|G@GG@GG@EG@F`J'G@%p  
=qtr}(hURr~G@FG@F`G@E`G@F  
JG@%33333tr(hURrG@FG@FG@F@G@FJG@%zGtr(hURrG@FG@GG@FG@GJ`,sG@&  
=p  
tr(hURrG@G@G@G@G@FG@F  
=qJ0WG@%\tr(hURrG@FG@GG@F@G@FJS<G@%zGtr(hURrG@FG@G  
=qG@FG@G`J`fG@&fffftr(hURrG@G`G@H G@G@G@HJ  
iG@'tr(hURrG@HG@HG@GG@HJCNG@'zG{tr(hURrG@HG@HG@FG@G  
J0G@&(\tr(hURrG@G@G@G`G@FG@G JBG@&(\tr(hURrG@G G@G G@EG@F  
JP\*qG@%33333tr(hURrG@FG@FG@FG@FJkG@%Qtr(hU RrG@GG@G@G@FG@F  
=qJ\ZG@%G{tr(hU  
RrG@GG@G G@Fp  
=qG@FJPNG@%Qtr(hU  
RrG@FG@G  
=qG@FG@GJvDG@&Qtr(hURrG@GG@HG@GG@GJPDG@&(\tr(hURrG@GG@HG@GG@HJ@V\_G@'tr(h

URrG@GG@HG@GG@H`JwLG@'\(tr(hURrG@FG@GG@FP  
=qG@FJpG@%\ (tr(hURrG@F`G@FG@FG@F`JhG@%p  
=qtr(hURrG@FG@G G@FG@FJ/HG@%Qtr(hURrG@FG@FG@FG@F  
J{XG@%333333tr(hURrG@F@G@F`G@EG@F`J]G@%p  
=qtr(hURrG@F@G@G G@FG@F  
=qJIG@%G{tr(hURrG@FG@G@G@FG@FJZG@%zGtr(hURrG@FG@G@G@FG@G@J  
sIG@&GzHtr(hURrG@GP  
=qG@GG@G@G@GJG@&  
=ptr(hURrG@GG@GG@G`G@GJp0KG@&  
=ptr(hURrG@GG@GG@G`G@G`J01G@&ffffftr(hURrG@G`G@GG@FG@FJk%G@%Qtr(hURrG@FG@FG  
@F`G@FJAG@%tre((hURrG@FG@FG@F@G@F`JLG@%p  
=qtr(hURrG@F G@F@G@E`G@FJG@%zGtr(hURrG@EG@EG@DG@E  
=qJ`wG@\$zHtr(hU  
RrG@EG@F@G@EG@F  
=qJ2G@%#  
=ptr(hURrG@F@G@F@G@EG@EJ6BG@\$  
=ptr(hURrG@EG@F G@EG@F  
=qJ0GBG@%#  
=ptr(hU  
RrG@F@G@FG@F G@F`Jj]G@%p  
=qtr(hURrG@FG@FG@F@G@F`JXJG@%p  
=qtr(hURrG@F G@F`G@EG@F`JuFG@%tr(hURrG@F@G@FG@F@G@F`JM=G@%tr(hURrG@FP  
=qG@FG@F@G@F@J]G@%aGztr(hURrG@F`G@FG@F G@F`Jn;G@%tr(hURrG@F`G@FG@FG@FP  
=qJ;G@%p  
=qtr(hURrG@F G@F`G@EG@EJ@:SG@\$zHtr(hURrG@EG@F@G@EG@F0  
=qJ@1HG@%QRtr(hURrG@F G@F@G@EG@F`JBG@%B\ (tr(hURrG@F`G@F  
=qG@F G@F@JPd-G@%aGztr(hURrG@F G@FG@FG@FJ`!G@%Qtr(hURrG@FG@G G@F`G@GJ`  
BG@&tr(hU RrG@G G@G@G@FG@G@J`\$!G@&W  
=ptr(hU RrG@G@G@H`G@G@G@H@JgG@`Ltr(hU RrG@HG@HG@GG@GJPsG@&  
=qtr(hU RrG@H G@H G@G`G@GJ"G@&333333tr(hU RrG@G`G@HG@G@G@GJ`Q&G@&  
=qtr(hU RrG@HG@HG@GG@HJUG@`=p  
tr(hU  
RrG@HG@HG@GG@HJ]G@`)tr(hU RrG@HG@HG@GG@G  
=qJp<bG@&Gztr(hU RrG@HG@IG@H@G@HJ`9uG@`zHtr(hU RrG@HG@HG@GG@H JPwG@`.zGtr(hU  
RrG@GG@H G@G@G@GJaG@&zGtr(hU RrG@GG@GG@F  
=qG@GJL^G@&tr(hU RrG@FG@Gp  
=qG@FG@G@J?G@&W  
=ptr(hU RrG@G`G@GG@G G@G@J00G@&W  
=ptr(hU RrG@G`G@G`G@FG@FJ<G@%G{tr(hU RrG@GG@GG@FG@GJ@CG@&Rtr(hU RrG@GG@GG@G  
G@G JDG@&8Qtr(hU RrG@G G@G@G@FG@FJ+KG@%\ (tr(hU RrG@FG@FG@EG@F`J QG@%tr(hU  
RrG@F@G@FG@FG@Fp  
=qJ UG@%\ (tr (hU Rr  
G@FG@FG@F@G@F  
=qJ6G@%zGtr(hU  
RrG@F`G@F  
=qG@F G@F JpCG@%B\ (tr  
(hU  
RrG@F@G@F`G@EG@EJp>G@%Qtr(hU

RrG@EG@EG@DG@EJG@\$fffftr(hU  
RrG@EG@FG@E`G@F`J=G@%tr(hU  
RrG@FG@FG@EG@EJp=G@%Qtr(hU  
RrG@FG@F G@EG@EJREG@\$fffftr(hU  
RrG@EG@FG@EG@E  
=qJ`\* G@\$  
=ptr(hU  
RrG@EG@F G@EG@FJ ^G@%#  
=ptr(hU  
  
RrG@F`G@GG@FG@F  
=qJXPG@%tr(hU  
RrG@FG@G G@FG@GJPS4G@&tr(hU  
Rr G@FG@GG@FG@FJ7)G@%(\tr!(hU  
Rr"G@G`G@HG@G@G@HJNG@'=p  
tr#(hU  
Rr\$G@HG@HG@H@G@HJ jG@'=p  
tr%(hU  
Rr&G@HG@IG@H@G@H  
=qJG@'tr'(hU  
Rr(G@HG@HG@HG@H@JD>G@'Ltr)(hU  
Rr\*G@H@G@HG@H G@H`J-.G@'kQtr+(hU  
Rr,G@HG@HG@H G@H`J` 2G@'kQtr-(hU  
Rr.G@H`G@IG@H@G@IJG@(p  
=tr/(hU  
Rr0G@IG@J@G@IG@IJ0sG@(p  
=tr1(hU  
Rr2G@IG@J`G@I`G@J JpQkG@)tr3(hU  
Rr4G@J G@KG@IG@JJtG@)zGtr5(hU  
Rr6G@JG@JG@JG@J@JGG@)8Qtr7(hURr8G@J@G@J`G@IG@J  
J@\G@)tr9(hURr:G@J@G@J@G@IG@JJ=G@(G{tr;(hURr<G@JG@J`G@JG@J@JPMG@)8Qtr=(hURr>G@J  
@G@KG@J@G@KJ0xG@\*kQtr?(hURr@G@K`G@L@G@K`G@KJG@\*zHtrA(hU  
RrBG@LG@LG@K`G@KJ =G@\*`=p  
trC(hU  
RrDG@KG@L@G@K`G@L JBG@+QtrE(hURrFG@L@G@M G@L  
G@L`JpLG@+B\(\trG(hURrHG@LG@LG@L0  
=qG@Lp  
=qJ0:G@+W  
=ptrI(hU  
RrJG@LG@LG@LG@L Jj.G@+QtrK(hURrLG@L G@LG@LG@L  
=qJ\$G@+zGtrM(hURrNG@LG@LG@Kp  
=qG@KJ>\G@\*`=p  
trO(hURrPG@LG@M G@KG@LJ`G@+\(\trQ(hURrRG@LG@MG@LG@M  
JYG@,trS(hURrTG@M@G@M`G@LG@LJUG@+  
=ptrU(hURrVG@L@G@LG@L G@L`JYSG@+B\(\trW(hURrXG@LG@LG@L@G@LJwUG@+  
=ptrY(hURrZG@LG@LG@LG@L@J5@G@+  
=ptr[(hURr\G@L@G@LG@L G@L@JG@+  
=ptr](hURr^G@L G@LG@K

=qG@LJWG@+zGtr\_(hURr`G@LG@MG@L`G@M JpFG@,\\(tra(hURrbG@M  
G@M@G@LG@LJ0c5G@+\\(trc(hURrdG@L@G@L  
=qG@L  
=qG@LJffG@+zGtre(hURrfG@LG@LG@L@G@Lp  
=qJ\_4G@+ffffftrg(hURrhG@L`G@LG@L`G@LJNG@+tri(hURrjG@LG@M`G@LG@M  
=qJZkG@,trk(hU RrlG@LG@MG@LG@L  
=qJVG@+\\(trm(hU  
RrnG@LG@L  
=qG@L@G@LJpuLG@+\\(tro(hURrpG@LG@M  
G@LG@LJAG@+zGtrq(hURrrG@LG@LG@L`G@LJt<G@+\\(trs(hURrtG@L`G@LG@KG@L0  
=qJcG@+#  
=ptr(hURrvG@L G@LG@K@G@KJ^{G@\*zG{trw(hURrxG@KG@LG@KG@Lp  
=qJpG@+ffffftry(hURrzG@LG@MG@LG@M JdG@,\\(tr{(hURrjG@M G@NG@MG@M  
=qJ G@,Qtr}(hURr~G@MG@NG@MG@NP  
=qJpG@-33333tr(hURrG@N  
G@N@G@MG@MJpR=G@,zHtr(hURrG@NG@NG@MG@MJG@,kQtr(hURrG@MG@MG@MG@MJ&G@,\\  
)tr(hURrG@MG@N`G@MG@M  
=qJ?G@,Qtr(hURrG@MG@MG@M`G@M`J7G@,Ltr(hURrG@M`G@NG@M`G@MJpb2G@,zHtr(hURrG@M  
G@NG@LG@M J0zFG@,\\(tr(hURrG@MG@MG@LG@MJeG@,=p  
tr(hURrG@N`G@OG@N@G@NJoG@-p  
=tr(hURrG@NG@O@G@NP  
=qG@NJG@-aGztr(hURrG@N`G@OG@MG@O JG@-  
G{tr(hURrG@OG@PzHG@NG@PzHJpOG@.Gztr(hURrG@O`G@OG@NG@NJpG@-Qtr(hU  
RrG@NG@PG@NG@OJplG@.zGtr(hURrG@PG@PPG@OG@P@JpG@/Ltr(hURrG@NG@O G@NG@N  
J@6G@-Qtr(hURrG@MG@NG@MG@MJpG@,)tr(hURrG@MG@N@G@MG@MJG@,zHtr(hURrG@MG@N  
G@MG@NJ`VG@,ffffftr(hURrG@MG@N G@M`G@NJdG@,ffffftr(hURrG@N G@N  
G@MG@MJ0%PG@,)tr(hURrG@MG@N@G@MG@NJonG@,ffffftr(hURrG@N@G@OG@N@G@N`JpG@-  
B\\(tr(hURrG@NG@NG@M`G@N JP{G@-Qtr(hURrG@NG@N G@MG@M  
=qJ gdG@,  
=ptr(hURrG@N G@NG@MG@MJ7G@,)tr(hURrG@MG@NG@MG@NJ`G@-tr(hURrG@N`G@NG@N G@N  
JcG@-Qtr(hURrG@NG@NG@M@G@NJ`FG@,ffffftr(hURrG@NG@N  
G@MG@MJqG@,)tr(hURrG@MG@MG@L  
G@LJ@jG@+\\(tr(hURrG@LG@LG@KG@L@JG@+33333tr(hU RrG@LG@L  
=qG@L@G@Lp  
=qJ G@+ffffftr(hU  
RrG@LG@LG@KG@KJcG@\*  
=ptr(hURrG@KG@L G@KG@K  
=qJ[G@\*=p  
tr(hURrG@KG@KG@JG@J  
=qJpbG@\*tr(hURrG@JG@JG@IG@JJ7G@)zGtr(hURrG@JG@KG@JG@J  
=qJOLG@\*tr(hURrG@KG@KG@JG@KJG@\*=p  
tr(hURrG@KG@KG@K`G@KJP&aG@\*=p  
tr(hURrG@KG@LG@K`G@K  
=qJ5G@\*tr(hURrG@KG@KG@KG@K JiG@\*.zGtr(hURrG@J  
=qG@J  
=qG@J  
=qG@J  
=qJ uG@)Gztr(hURrG@JG@K`G@JG@K`J@<[G@\*kQtr(hURrG@K G@K G@J

G@JJG@)zGtr(hURrG@JG@JG@J`G@JJ1AG@)33333tr(hURrG@JG@K@G@JG@K  
J@PG@\*.zGtr(hURrG@KG@KG@JG@KP  
=qJnG@\*\(\tr(hURrG@K@G@KG@JG@KJfG@\*=-p  
tr(hURrG@K`G@KG@K`G@KJ  
=G@\*=-p  
tr(hURrG@KG@L`G@KG@L@Jx`G@+B\(\tr(hU RrG@L@G@LG@L@G@L`JuTG@+aGztr(hU  
RrG@L`G@LG@LG@L`JNHG@+aGztr(hURrG@LG@LG@L G@Lp  
=qJNG@+u\(\tr(hURrG@L`G@L`G@KG@L JEG@+  
=ptr(hURrG@LG@LG@K  
=qG@LJJG@+tr(hURrG@LG@LG@L@G@L@J0W7G@+B\(\tr(hURrG@L@G@LG@KG@K  
=qJ&`G@\*tr(hURrG@KG@K  
=qG@K@G@K@J%:G@\*Ltr(hURrG@KG@KG@JG@JJ.TG@)  
=qtr(hURrG@JG@J  
=qG@J`G@JJ2ZG@)33333tr(hURrG@JG@KG@JP  
=qG@J`J 8G@)u\(\tr(hURrG@J`G@K G@J@G@JJ9NG@)  
=qtr(hURrG@JG@K`G@JG@K`Jv]G@\*kQtr(hURrG@K`G@K`G@J@G@JJRG@)33333tr(hURrG@J  
G@J@G@I`G@IJP@)(Qtr(hURrG@I  
=qG@J G@I G@J J(G@)8Qtr(hURrG@J@G@J`G@IG@IJ yG@((\tr(hURrG@IG@JG@IG@Ijp,;G@(G{tr  
(hURr  
G@I@G@IG@HG@I  
=qJ`G@(333333tr(hURrG@IG@I@G@HG@IJ \QG@(Qtr  
(hURrG@IG@I  
G@H`G@H`J[G@'Qtr(hURrG@HG@I`G@H@G@I@JXG@(aGztr(hURrG@IG@I@G@HG@HJ@aYG@(\tr(hU  
RrG@HG@IG@HG@IJ2G@(Qtr(hU  
RrG@I@G@IG@H G@H@JYG@'ffffftr(hURrG@H G@H`G@G  
=qG@H`Jp\G@'Qtr(hURrG@H G@H G@G`G@GJ`FwG@&tr(hURrG@H G@H`G@G  
=qG@H  
=qJXvG@'8Qtr(hURrG@H@G@HG@H G@H@J T|G@'ffffftr(hURr G@H`G@I G@H  
G@IJG@(Qtr!(hURr"G@I G@I`G@HG@H  
=qJoG@\(\tr#(hURr\$G@HG@I@G@HG@IJ1VG@(Qtr%(hURr&G@HG@I  
G@H`G@HJ@JIG@\(\tr'(hURr(G@HG@HG@H@G@HJJ8G@'  
=ptr(hURr\*G@H`G@I G@H`G@I J`FG@)(B\(\tr+(hURr,G@HG@JG@HG@I  
=qJ7YG@(\tr-(hURr.G@IG@IG@I  
=qG@I`J"-G@(\tr/(hURr0G@I`G@J@G@I`G@IJ,HG@(p  
=tr1(hURr2G@IG@JG@IG@I  
=qJ#G@)  
=p  
tr3(hURr4G@J G@K G@JG@J  
=qJD]G@))(\tr5(hURr6G@JG@KG@JG@K@J;G@\*Ltr7(hURr8G@K@G@K`G@JG@JJ`&G@)  
=qtr9(hURr:G@JG@K`G@JG@K`J,G@\*kQtr;(hU  
Rr<G@KG@K  
=qG@KG@KJ6KG@\*=-p  
tr=(hURr>G@KG@KG@KG@K@J@sVG@\*Ltr?(hURr@G@K G@K`G@JG@JJ9G@)33333trA(hU  
RrBG@JG@KG@JG@KJvG@\*zHtrC(hURrDG@KG@LG@KG@KJ  
E@G@\*zHtrE(hURrFG@KG@LG@KG@KJ@&G@\*ffffftrG(hURrHG@KG@L  
G@KG@KJjYG@\*zHtrI(hURrJG@K`G@LG@K@G@LJ>^G@+QtrK(hURrLG@LG@MG@LG@M`J0wG@,(\n  
\trM(hURrNG@M`G@M  
=qG@L`G@LJ PG@+p

=trO(hURrPG@L`G@M`G@L`G@L  
=qJQG@+RtrQ(hURrRG@L`G@LG@KG@L0  
=qJbG@+333333trS(hURrTG@LG@LG@K  
=qG@LJ@nBG@+GztrU(hURrVG@LG@M@G@LG@LJkG@+p  
=trW(hURrXG@LG@LG@L G@LP  
=qJ`TdG@+aGztrY(hURrZG@L@G@LG@L@G@LJIG@+\(tr[(hURr`G@L`G@M  
G@LG@LJ@mG@+\(tr)(hURr^G@LG@LG@LG@L0  
=qJUG@+B\(\tr\_(hURr`G@KG@L G@K@G@Kp  
=qJtG@\*=p  
tra(hURrbG@K@G@K`G@I0  
=qG@T JG@ (=p  
trc(hURrdG@H`G@IG@HG@HJRG@'  
=qtre(hU RrfG@FG@F  
=qG@FG@F J>G@%fffffftrg(hU  
RrhG@EG@F`G@E`G@F@J-G@%Qtri(hURrjG@FG@FG@E  
=qG@EJ-G@%(\)trk(hURrlG@FG@F`G@EG@FP  
=qJp9G@%zGtrm(hURrnG@FG@FG@D  
=qG@EJPjG@\$QRtro(hURrpG@E G@EG@DG@E JG@\$p  
=qtrq(hURrrG@E@G@E@G@D@G@DJPRG@#  
=qtrs(hURrtG@D  
=qG@E  
=qG@CG@DJG@#Rtru(hURrvG@D@G@D@G@CG@C  
=qJ.G@#(\)trw(hURrxG@Dp  
=qG@EG@CG@D  
=qJmG@\$Qtry(hURrzG@DG@DG@DG@D@JbG@#zGtr{(hURr|G@D@G@DG@DG@DJyG@\$333333tr}(hU  
Rr~G@D0  
=qG@D`G@CG@DJYG@#W  
=ptr(hURrG@D@G@D@G@C`G@D  
=qJG@#fffffftr(hURrG@D G@D  
G@C@G@CJG@"(\tr(hURrG@C`G@CG@C@G@CJgmG@#tr(hURrG@CG@CG@CG@CJ(wG@"aGztr(hURr  
G@C G@C`G@BG@C@JwhG@"Qtr(hURrG@C G@CG@BG@BJTG@"B\(\tr(hURrG@BG@B  
=qG@B G@B@J{G@!)tr(hURrG@B@G@BG@B G@B@B@JKG@!)tr(hU  
RrG@BG@BG@B@G@B`J0UG@!zHtr(hURrG@B`G@C  
=qG@B G@CJ^G@"aGztr(hU  
RrG@C`G@C`G@BG@BJp9VG@"Qtr(hURrG@B`G@BG@AG@BJG@"Qtr(hURrG@BG@BG@AG@AJ@G  
@!GzHtr(hURrG@<G@=QG@:G@;JG@tr(hURrG@<G@<G@9G@9QJG@tr(hURrG@:@G@;G@9G@:QJ/"G  
@tr(hURrG@:G@:G@9G@:@JwG@fffffftr(hURrG@:G@;G@9G@:J`EsG@  
=ptr(hURrG@:G@;G@:G@:@J  
G@fffffftr(hURrG@:G@;G@:G@:QJ`oSG@tr(hURrG@:G@;G@:@G@:JYIG@  
=ptr(hURrG@:@G@;G@:@G@:QJZ2G@tr(hURrG@:G@;G@:G@;@JEBG@\(\tr(hURrG@:G@<@G@;G@;Ju  
G@  
=ptr(hURrG@<@G@=@G@<G@<JuG@\(\tr(hURrG@=G@=@G@<G@=JP^`G@  
=p  
tr(hURrG@=@G@>G@=G@>@J`G@=p  
=tr(hURrG@>G@>G@=G@=J0lrG@Qtr(hURrG@=@G@>@G@=@G@=@JDG@GzHtr(hU  
RrG@=@G@>@G@=G@=JXG@\(\tr(hU  
RrG@=G@=G@<@G@<JfSG@\(\tr(hURrG@<G@<G@;G@;J[G@tr(hURrG@;G@;G@:G@:JG@  
=ptr(hU

RrG@:G@;G@:@G@;^QJpKG@zG{tr(hURrG@;G@<G@;@G@;J7G@Qtr(hURrG@;G@<G@;@G@<^QJ';G  
@)\(tr(hURrG@=G@=G@<@G@<JgG@zGtr(hURrG@<G@<G@;G@;J0SG@Qtr(hURrG@;G@<G@;G@<J6G  
@333333tr(hURrG@<G@<G@;G@<^QJ@1G@)\(tr(hURrG@<@G@<G@;G@<JR7G@333333tr(hURrG@<G@  
<@G@:G@;@Jp|OG@zG{tr(hURrG@;@G@;@G@:G@:QJ`G@Qtr(hURrG@;G@;G@:G@:JeG@)\(tr(hURrG  
@:G@:G@9QG@:JQG@=p  
=tr(hURrG@:G@:G@:G@:JEG@)\(tr(hU RrG@:G@:G@9G@:QJ{G@)\(tr(hU  
RrG@:G@:@G@9@G@9JG@tr(hU RrG@:G@:G@9@G@9JpXG@tr(hU  
RrG@:G@;G@9G@:@JGNG@Qtr(hU RrG@:@G@;G@:G@:Jp{G@tr(hU RrG@:G@;G@:G@:J@QG@=p  
=tr(hU  
RrG@:@G@:@G@9^QG@:@JPIG@Qtr(hU  
RrG@:@G@:G@8G@9@J0G@Qtr(hU RrG@8@G@9G@8G@8@JG@)\(tr(hU RrG@8G@9G@7G@8JG@tr(hU  
RrG@8@G@9G@8@G@8J/G@  
=p  
tr(hU RrG@8^QG@9G@8@G@9@J JG@Qtr(hU RrG@9@G@9G@8G@8QJ <G@)\(tr(hU  
RrG@8G@9@G@7QG@8JPG@tr(hU RrG@8@G@9G@8@G@9Jo<G@)\(tr(hU RrG@9G@9G@8G@8JGG@  
=p  
tr(hU RrG@9G@9@G@8G@9J)G@GzHtr(hU RrG@9G@9@G@8@G@8J=G@  
=p  
tr(hU RrG@8G@9G@8@G@8J 3G@  
=p  
tr(hU RrG@8@G@8QG@7G@7QJ\$G@333333tr(hU RrG@8G@8G@7G@7^QJG@Qtr(hU  
RrG@6G@7G@6G@6JpG@Qtr(hU  
RrG@6QG@7G@6G@6J&iG@Qtr (hU  
Rr  
G@7G@8G@7G@7J:`G@  
=ptr(hU  
RrG@7G@8G@7^QG@7QJ\_G@)\(tr  
(hU  
RrG@7G@7G@6G@7J`IG@)\(tr(hU  
RrG@7@G@7@G@6@G@6QJ!LG@)\(tr(hU  
RrG@6G@8G@6G@7J`XG@zGtr(hU  
RrG@8G@9G@7G@8JG@QRtr(hU  
  
RrG@8@G@8@G@7G@8Jx`G@QRtr(hU  
RrG@8G@8G@7G@7JWG@zGtr(hU  
RrG@;G@<G@:G@<@JPG@p  
=qtr(hU  
RrG@<G@<G@;G@<^QJ`G@)\(tr(hU  
RrG@<@G@<G@;@G@;J@tG@)\(tr(hU  
Rr G@<G@<@G@;@G@;JKG@)\(tr!(hU  
Rr"G@;G@?@G@;@G@>@JVG@ffffftr#(hU  
Rr\$G@>G@?G@=G@>@JG@ffffftr%(hU  
Rr&G@>@G@>G@=QG@>J wG@()\tr'(hU  
Rr(G@=G@>G@=G@=JyG@Qtr)(hU  
Rr\*G@>G@@ G@=G@?JyG@  
=ptr+(hU  
Rr,G@?G@@ G@?G@?J PG@Qtr-(hU  
Rr.G@?G@?G@>G@>JJG@Gztr/(hURr0G@>G@?G@>@G@?J9G@tr1(hURr2G@?@G@@G@?G@@`J

GzG@tr3(hURr4G@@G@@G@?G@?QJo`G@Qtr5(hURr6G@?G@@ G@>G@@  
J@2eG@QRtr7(hURr8G@?QG@@ G@>G@?QJ1G@\\(tr9(hURr:G@@G@@  
=qG@>G@>J@  
[G@Gztr;(hU Rr<G@?G@?@G@=G@>QJP]G@GzHtr=(hU  
Rr>G@>@G@>G@>G@>J  
3\*G@Gztr?(hURr@G@>G@@G@>G@?^QJMG@zG{trA(hURrBG@?G@@G@>G@?JaNG@  
=ptrC(hURrDG@?G@@`G@?G@@JUG@zGtrE(hURrFG@@G@A G@?G@AJ\_G@  
QtrG(hURrHG@AG@AG@@`G@@JG@ GzHtrI(hURrJG@@G@@G@@G@@Jpe>G@  
GzHtrK(hURrLG@@G@@G@@@G@@JpGCG@ zGtrM(hURrNG@@`G@@G@@  
G@@@J;RG@zGtrO(hURrPG@@@G@@G@?@G@@JeG@ zGtrQ(hURrRG@@`G@@G@@@P  
=qG@@J1G@ zGtrS(hURrTG@@`G@@G@@ G@@@P  
=qJG@trU(hURrVG@@ G@@@G@?G@?Jp4G@\\(trW(hURrXG@?G@@@P  
=qG@?G@?J=G@QtrY(hURrZG@@G@@@  
G@?@G@?J0<G@Qtr[(hURr\\G@?G@@G@?G@?J&7G@\\(tr)(hURr^G@?G@@G@?G@?JAG@Qtr\_(hURr`G  
@?G@@@G@?@G@@ JUG@p  
=qtra(hURrbG@@G@@ G@?G@@ J"G@p  
=qtrc(hURrdG@@G@@ G@?G@?QJG@zGtre(hU RrfG@?G@@G@=G@>JcG@=p  
=trg(hU  
RrhG@>@G@>G@;G@<@JQG@\\(tri(hU  
RrjG@<@G@=G@;G@=Jp2G@\\(trk(hURrlG@=@G@=G@=G@=QJG@ffffftrm(hURrmG@=G@=G@=G@=J  
CG@tro(hURrpG@=G@=G@=G@=^QJ 'EG@  
=ptrq(hURrrG@=G@=G@=QG@=J  
OOG@\\(trs(hURrtG@=@G@=G@<@G@<JHgG@tru(hURrvG@<G@<G@;@G@;J  
G@trw(hURrxG@;@G@<G@;G@<J)cG@GzHtry(hURrzG@;@G@;@G@:G@;@J{G@\\(tr{(hURr|G@;G@<G  
@;@G@<JnWG@tr)(hURr~G@<G@=G@<G@=QJWG@ffffftr(hURrG@=@G@=@G@<G@<J:G@tr(hURrG  
@<G@>@G@<G@=JG@tr(hURrG@=G@>@G@=@G@=@JPWG@Qtr(hURrG@=G@>G@=G@=QJbG@Qtr  
(hURrG@>@G@?G@>G@?JG@Qtr(hURrG@?G@@@  
=qG@?G@@JMG@ u\\(tr(hURrG@@G@AG@@@G@@`J G@Qtr(hURrG@@G@@G@?@G@@@  
=qJ G@ ()tr(hU  
RrG@@G@@@  
=qG@@`G@@@  
=qJ2nG@ ffffftr(hURrG@@G@@G@?G@?QJ`G@zGtr(hURrG@@ G@@ G@>G@>J0SG@Qtr(hU  
RrG@>G@>G@=G@>QJ!G@  
=ptr(hURrG@>G@?G@>G@?JpuG@=p  
=tr(hURrG@?G@?G@>G@>^QJqOG@tr(hURrG@>@G@>@G@=G@=^QJPG@  
=ptr(hURrG@=@G@=G@<G@=@JG@Qtr(hURrG@=G@>G@=G@=QJ@7G@Qtr(hURrG@@G@@G@@@  
G@@@  
=qJp,G@ GzHtr(hURrG@@G@AG@@G@AJpyG@!\\(tr(hURrG@A`G@AG@@G@@@  
=qJ0`G@ Qtr(hURrG@@G@AG@@G@@J^ZG@ W  
=ptr(hURrG@@G@A G@@G@A  
=qJ@HG@  
=ptr(hURrG@A G@A`G@@G@AJ@JG@  
zGtr(hURrG@@G@@G@@`G@@@`J1G@Qtr(hURrG@@G@@G@@ G@@JPUG@  
33333tr(hURrG@@G@@G@@@G@@@JpPG@ zGtr(hURrG@@G@@@  
=qG@@@G@@JPFKG@ W  
=ptr(hURrG@@G@AG@@G@@JPG@ W  
=ptr(hURrG@@G@B  
=qG@@G@B@JPG@!\\(tr(hURrG@BG@B@G@AG@AJG@!tr(hU RrG@AG@B@G@AG@B J8fG@!p



=tr(hU  
RrG@B G@BG@BG@B@JPG@!(\tr(hURrG@B G@BG@B G@BJYG@"tr(hURrG@BG@CG@B`G@BJ  
G@"tr(hURrG@B`G@BG@B G@B  
=qJ@GG@"(\tr(hURrG@BG@BG@B`G@B`J@BG@!G{tr(hURrG@BG@B  
=qG@B G@BJ OOG@"tr(hURrG@B@G@BG@B G@B J@FQG@!p  
=tr(hURrG@B G@BG@AG@BJ!uG@"8Qtr(hURrG@BG@C G@BG@BJIG@"8Qtr(hURrG@BG@BG@B  
G@BP  
=qJIG@!Qtr(hURrG@BG@BG@AG@BJ 6G@!Qtr(hURrG@B  
G@BG@BG@B@JpCG@!(\tr(hURrG@B`G@B`G@AG@B JpsG@!p  
=tr(hURrG@AG@B G@A`G@A  
=qJG@!p  
=qtr(hURrG@AG@B G@AG@AJfG@!tr(hURrG@BG@BG@AG@B`J{G@!G{tr(hURrG@BG@C  
=qG@B`G@B  
=qJ3G@"=p  
tr(hURrG@CG@CG@B`G@BJ0oeG@"tr(hU RrG@BP  
=qG@BG@BG@BJ G@"W  
=ptr(hU  
RrG@BG@B  
=qG@B`G@BJwNG@"8Qtr(hURrG@BG@BG@B`G@BJ]XG@"8Qtr(hURrG@C@G@C@G@BG@C  
=qJG@"\tr(hURrG@C G@C G@BG@B  
=qJoG@"fffftr(hURrG@BG@BG@B@G@B`J0WPG@!G{tr(hURrG@B`G@BG@B  
G@B@JOUG@!(\tr(hURrG@B`G@B`G@AG@B0  
=qJ0#zG@!tr(hURrG@B0  
=qG@B@G@AG@AJ`G@!(\tr(hURrG@AG@AG@A@G@AJpG@!Qtr(hURrG@AG@AG@A G@A  
=qJP>vG@!.zGtr(hURrG@A  
=qG@AG@AG@AP  
=qJpfG@  
=qtr(hURrG@A`G@A`G@@`G@@`JG@ Qtr(hURrG@@G@AG@@`G@@JpG@  
B\tr(hURrG@@G@@G@@G@@`JtG@  
Qtr(hURrG@@G@@G@?G@@@J\G@tr(hURrG@@G@@G@?G@@Jp'rG@ B\tr(hURrG@@  
G@@G@?G@@J [G@ B\tr(hURrG@@G@A G@@G@@J]5G@ aGztr(hURrG@AG@AG@@`G@@JpFG@  
aGztr (hURr  
G@@G@@G@@`G@@  
=qJ0\*G@ W  
=ptr(hURrG@@G@AG@@G@@J`G@ aGztr  
(hURrG@@G@@G@@@G@@JW:G@ aGztr(hURrG@@  
=qG@@  
=qG@?G@@JJG@QRtr(hU  
RrG@@ G@ @G@?@G@?JG@zGtr(hURrG@>G@?G@>G@?J  
yG@  
=ptr(hURrG@?@G@?G@>G@>@J0fG@tr(hURrG@>G@>G@=@G@=QJ}G@tr(hURrG@=G@>G@<G@=JZ  
G@(\tr(hURrG@=@G@>G@<G@<@J G@  
=ptr(hURrG@<G@>G@;G@=QJG@tr(hURr  
G@?@G@@G@<G@=JM|G@Qtr!(hURr"G@=G@?G@=G@?JG@QRtr#(hURr\$G@?G@?G@?G@?@JYG@\  
tr%(hURr&G@?G@?@G@=G@>@J6G@tr'(hURr(G@>G@>G@=G@>J  
3G@(\tr(hURr\*G@>G@?@G@>G@?J0(CG@QRtr+(hURr,G@?G@?@G@=G@>@JpHG@tr-  
(hURr.G@?G@@G@>G@@JG@ #  
=ptr(hURr0G@@G@@G@@ G@@p

=qJHG@ zGtr1(hURr2G@@ G@@`G@?@G@@@zHJfG@tr3(hU Rr4G@@ G@@@G@>G@?@JLG@\\(tr5(hU  
Rr6G@?G@@G@?G@?JPPG@QRtr7(hURr8G@?G@?G@=G@>@JOG@tr9(hURr:G@>G@>G@=G@=  
=qJ:G@  
=p  
tr;(hU  
Rr<G@=G@>G@=@G@>J@2G@\\(tr=(hURr>G@>G@>G@=G@=JJG@Gztr?(hURr@G@=G@=G@<G@=^  
QJpnbG@QtrA(hURrBG@=G@>G@=@G@>QJ@CG@\\(trC(hURrDG@>G@@@G@>G@@@  
=qJ.G@p  
=qtrE(hURrFG@?G@@ G@?G@?(J5G@ffffftrG(hURrHG@?G@?@G@>G@>JgAG@  
=ptrI(hURrJG@?G@?@G@>@G@>JP8EG@zGtrK(hURrLG@>@G@?G@>G@?@J[JG@\\(trM(hURrNG@?G  
@?G@>@G@>J'G@  
=ptrO(hURrPG@>@G@>G@=G@=  
=qJ=:G@ffffftrQ(hURrRG@=G@=G@<G@=@J@G@QtrS(hURrTG@<G@<QG@;QG@<@J^G@\\(trU(hURr  
VG@<^QG@<G@;QG@;^QJ'G@GztrW(hURrXG@;QG@<G@:G@;QJG@QtrY(hURrZG@;G@;G@;G@;^QJ  
DG@Gztr[(hURr\\G@;@G@;G@;@G@;J'LG@tr](hURr^G@;G@;QG@:G@:QJOG@  
=ptr\_(hU Rr`G@9QG@;G@9G@;JG@Qtra(hU  
RrbG@;QG@;^QG@:^QG@:JMG@  
=p  
trc(hU  
RrdG@:^QG@;0  
=qG@:^QG@;J2G@Qtre(hURrfG@;@G@;^QG@:QG@;\\(J@fTG@trg(hURrhG@;G@<G@:QG@;\\(J  
WG@QRtri(hURrjG@;G@;G@:QG@:^QJ05wG@Qtrk(hURrlG@:G@:G@9QG@:J}zG@  
=p  
trm(hURrmG@:@G@;@G@:G@;QJmG@  
=ptro(hURrpG@:QG@;@G@9G@:JG@\\(trq(hURrrG@:@G@:G@:G@:@J0F>G@trs(hURrtG@:@G@:@G@8  
QG@9QJ"oG@zGtru(hURrvG@9QG@:QG@8G@9\\(JpG@\\)trw(hURrxG@9@G@:@G@8QG@:@JG@try(hU  
RrzG@:@G@;QG@9QG@:J@\$\_G@GzHtr{(hURrlG@:G@;QG@9QG@:QJIG@  
=ptr}(hURr~G@:@G@:QG@:@G@:J7G@  
=p  
tr(hURrG@:^QG@:G@9^QG@9J0aG@GzHtr(hURrG@9QG@:G@9QG@:J'/G@  
=p  
tr(hURrG@:@G@:G@:G@:QJd5G@  
=ptr(hURrG@9QG@;G@9G@:\\(J  
JG@QRtr(hURrG@:G@;QG@:G@;\\(J@qG@tr(hURrG@;QG@;^QG@:QG@;Jp:G@Qtr(hURrG@;G@<p  
=qG@:^QG@<^QJ+G@Gztr(hU  
RrG@<G@>@G@<G@=  
=qJ0aG@\\)tr(hURrG@=QG@=G@<@G@<QJ@bG@Qtr(hURrG@<:G@{G@<QG@;G@<@J04G@\\(tr(hURrG  
@<QG@=G@<G@<^QJ)G@Gztr(hURrG@<QG@<G@;^QG@;  
=qJ?G@33333tr(hURrG@;^QG@;QG@:^QG@:QJ|vG@\\)tr(hURrG@:QG@<G@:G@<JG@Qtr(hURrG@?QG  
@?QG@>G@?JG@p  
=qtr(hURrG@?QG@?QG@>G@?  
=qJtG@Qtr(hURrG@?G@@G@?QG@?^QJ0gG@tr(hURrG@?@G@?^QG@>QG@?(J  
IG@Qtr(hURrG@?G@@@  
=qG@>QG@?QJG@QRtr(hURrG@?QG@AG@?QG@@QJ .G@ =p  
tr(hURrG@@@  
=qG@@G@@`G@@@  
=qJp0)G@ffffftr(hURrG@@G@@@  
=qG@@@0

=qG@@GzHJ!G@ tr(hURrG@@`G@@G@@  
=qG@@  
=qJ{G@ GzHtr(hURrG@@  
=qG@@G@@  
=qG@@J`eG@ W  
=ptr(hURrG@@p  
=qG@@  
=qG@@p  
=qG@@J/G@ W  
=ptr(hURrG@@  
=qG@AG@@G@@J MG@ zGtr(hU RrG@@G@@  
=qG@@  
=qG@@  
=qJ@\*G@ Qtr(hU  
RrG@@  
=qG@Ap  
=qG@@G@AP  
=qJRG@!tr(hURrG@A G@A  
=qG@@  
=qG@A'zHJp~G@ (\tr(hURrG@A0  
=qG@A  
=qG@@  
=qG@A`Jp  
bG@!(\tr(hURrG@A`G@AG@A G@AP  
=qJPAG@!(\tr(hURrG@A0  
=qG@A`G@AG@A`J@TG@!Qtr(hURrG@Ap  
=qG@A  
=qG@AP  
=qG@AJP"G@!B(\tr(hURrG@A`G@AG@A@G@AP  
=qJupG@!(\tr(hURrG@A`G@AG@A G@Ap  
=qJTGG@!333333tr(hURrG@A`G@AG@AP  
=qG@Ap  
=qJSG@!333333tr(hURrG@Ap  
=qG@A  
=qG@A`G@AJuG@!B(\tr(hURrG@A`G@AG@A0  
=qG@Ap  
=qJJG@!333333tr(hURrG@A G@B0  
=qG@A G@AzHJ G@!GzHtr(hURrG@AG@B  
=qG@AG@AJcoG@!Qtr(hURrG@AG@B  
=qG@AG@A  
=qJ0,SG@!p  
=qtr(hURrG@AG@B0  
=qG@A  
=qG@B JkcG@!(\tr(hURrG@BG@B  
=qG@AG@BQJG@!  
=ptr(hU RrG@A  
=qG@AG@AP  
=qG@AJwoG@!B(\tr(hU RrG@AG@AG@AG@A

=qJ[7G@!p  
=qtr(hU RrG@AG@A  
=qG@AG@AzHJ`2G@!Qtr(hU RrG@A  
=qG@BP  
=qG@A  
=qG@B  
=qJ"oG@!tr(hU RrG@BG@B G@A  
=qG@B  
=qJ@VG@!tr(hU RrG@AG@BG@A  
=qG@AJPUG@!Qtr(hU RrG@A  
=qG@AG@A  
=qG@AJ1G@!Qtr(hU  
RrG@AG@B G@A  
=qG@AzHJP8G@!  
=ptr(hU RrG@A  
=qG@AG@AG@A  
=qJ(6G@!QRtr(hU RrG@A  
=qG@B  
=qG@A  
=qG@BJP1G@!p  
=tr(hU RrG@A  
=qG@BG@AG@B0  
=qJ|G@!  
=qtr(hU RrG@B0  
=qG@B`G@AG@AJ>\_G@!tr(hU RrG@A  
=qG@A  
=qG@A0  
=qG@AGzHJkG@!  
=p  
tr(hU RrG@A@G@AP  
=qG@@G@A  
=qJ5G@ Rtr(hU RrG@A G@A G@@  
=qG@@  
=qJOG@ 3333tr(hU RrG@@  
=qG@A@G@@  
=qG@@QJHG@ Qtr(hU RrG@@  
=qG@A@G@@  
=qG@@QJfMG@ Qtr(hU RrG@@G@A  
=qG@@  
=qG@@  
=qJ ;G@ 3333tr(hU RrG@AG@A0  
=qG@@  
=qG@@  
=qJy,G@ 3333tr(hU RrG@@G@A0  
=qG@@  
=qG@A  
=qJ0;G@ Rtr(hU RrG@A  
=qG@A@G@@

=qG@@QJ'G@ tr(hU  
RrG@@  
=qG@@G@@@G@@  
=qJ0FG@ QRtr(hU  
RrG@@G@AG@@G@@J0XG@  
=ptr(hU  
RrG@@  
=qG@C  
=qG@@  
=qG@B  
=qJG@")tr(hU  
RrG@B  
=qG@Bp  
=G@BG@B JNG@!\tr(hU  
RrG@B  
=qG@BzHG@AG@BJ0G@"=p  
=tr (hU

Rr  
G@B  
=qG@C  
=qG@BG@Cp  
=qJZG@#(\tr(hU  
RrG@D  
=qG@D  
=qG@C  
=qG@C  
=qJ  
G@#=p  
tr  
(hU  
RrG@C  
=qG@EP  
=qG@C  
=qG@E  
=qJ`EG@\$(tr(hU

RrG@EP  
=qG@Ep  
=qG@DP  
=qG@D  
=qJEG@\$GzHtr(hU  
RrG@DG@EG@Dp  
=qG@D  
=qJ`G@\$GzHtr(hU  
RrG@Dp  
=qG@DG@Cp  
=qG@CJG@#tr(hU

RrG@DP  
=qG@D  
=qG@D@G@DJG@\$W  
=ptr(hU  
RrG@DG@E  
=qG@DG@DJP|G@\$W  
=ptr(hU  
RrG@DG@DzHG@D@G@DJ\$wG@\$333333tr(hU  
RrG@D`G@E`G@D`G@EP  
=qJ@G@%Qtr(hU  
RrG@E`G@E  
=qG@D  
=qG@E J@oG@\$Rtr(hU  
Rr G@D  
=qG@EP  
=qG@DG@EP  
=qJ[G@%Qtr!(hU  
Rr"G@EP  
=qG@E\G@EP  
=qG@EJxkG@%QRtr#(hU  
Rr\$G@EG@EG@E@G@E`JVG@%zGtr%(hU  
Rr&G@E0  
=qG@Ep  
=qG@DG@E  
=qJ`G@\$|(tr'(hU  
Rr(G@EG@E  
=qG@DG@EQJ6G@%GzHtr)(hURr\*G@Ep  
=qG@Ep  
=G@E0  
=qG@E  
=qJwG@%B|(tr+(hURr,G@E  
=qG@EG@D  
=qG@D  
=qJOwG@\$fffftr-(hURr.G@DG@EG@DG@DJ v<G@\$u|(tr/(hURr0G@DG@D  
=qG@DG@D0  
=qJhG@#fffftr1(hURr2G@D0  
=qG@DG@D  
=qG@D`J=G@\$zGtr3(hURr4G@DP  
=qG@EP  
=qG@D G@E J\_G@\$Rtr5(hU Rr6G@E`G@EG@DG@D  
=qJG@\$Qtr7(hU  
Rr8G@DG@D  
=qG@DG@DzHJSG@\$|(tr9(hURr:G@DG@DG@DG@D  
=qJ\$"G@\$GzHtr;(hURr<G@DG@E`G@DG@E@JSLG@\$  
=qtr=(hURr>G@E@G@EG@DG@D  
=qJ0[G@\$fffftr?(hURr@G@D`G@DzHG@DP  
=qG@DxQJ;fG@\$zGtrA(hURrBG@Dp  
=qG@DG@C

=qG@DJRG@#QtrC(hURrDG@DG@D@G@C  
=qG@DJ9PG@#zHtrE(hURrFG@DG@D G@CG@C  
=qJ0nG@"  
=ptrG(hURrHG@BG@C  
=qG@BG@B  
=qJp[zG@"zG{trI(hURrJG@BG@B  
=qG@B0  
=qG@Bp  
=qJG@"=p  
=trK(hURrLG@Bp  
=qG@BG@B`G@BJ0-G@")trM(hURrNG@B  
=qG@C G@BzHG@BzHJKG@"33333trO(hURrPG@CG@C@G@BG@C JNG@"fffftrQ(hURrRG@C0  
=qG@C  
=qG@BG@BJ`@G@"kQtrS(hURrTG@BG@B  
=qG@BG@BQJG@!fffftrU(hURrVG@B@G@B`G@A  
=qG@BGzHJ%^G@"zGtrW(hURrXG@B@G@B  
=qG@B  
=qG@BQJ`bG@"aGztrY(hURrZG@BG@C0  
=qG@Bp  
=qG@BzHJ0G@"(tr[(hURr`G@BG@BzHG@BzHG@BP  
=qJ@KG@"tr](hURr^G@Bp  
=qG@BG@AG@A  
=qJ\G@!p  
=tr\_(hU Rr`G@A  
=qG@B0  
=qG@A`G@B J0ZG@!Qtra(hURrbG@B0  
=qG@B`G@AG@B@J0#zG@"  
=p  
trc(hU  
RrdG@BP  
=qG@BxQG@B G@B0  
=qJ0AG@!G{tre(hURrfG@B@G@C  
=qG@B@G@B  
=qJG@"Qtrg(hURrhG@CG@C0  
=qG@Bp  
=qG@B  
=qJP|G@"\\tri(hURrjG@BG@BG@B`G@BJ&bG@"kQtrk(hURrlG@BG@C  
=qG@BG@C  
=qJpMg@#W  
=ptrm(hURrnG@C  
=qG@CG@C0  
=qG@C@J0\_G@#  
=p  
tro(hURrpG@B  
=qG@C@G@BG@C0  
=qJUG@"G{trq(hURrrG@C@G@Cp  
=qG@C G@CP  
=qJHG@#trs(hURrtG@C@G@C

=qG@C@G@Cp  
=qJs3G@#8Qtru(hURrvG@CG@CG@Cp  
=qG@C  
=qJ,G@#W  
=ptrw(hURrxG@C  
=qG@CG@C G@C  
=qJ00G@#W  
=ptry(hURrzG@CG@C  
=qG@C  
=qG@CJ=BG@#Qtr{(hURr|G@C  
=qG@C  
=qG@C`G@CJP'G@#GzHtr}(hURr~G@Cp  
=qG@Cp  
=qG@B  
=qG@C0  
=qJ@8G@"G{tr(hURrG@CP  
=qG@C  
=qG@CP  
=qG@C  
=qJVG@#u{(tr(hURrG@CG@C  
=qG@C`G@Cp  
=qJc(G@#8Qtr(hURrG@D  
=qG@E  
=qG@D  
=qG@EJJG@\$)(tr(hU RrG@D  
=qG@D  
=qG@DG@DJG@\$)(tr(hU  
RrG@DG@FG@DG@EQJZOG@%tr(hURrG@EG@HzHG@EXQG@G`JpCG@'Qtr(hURrG@G  
=qG@G0  
=qG@F`G@F  
=qJ,G@&p  
=qtr(hU  
RrG@G  
=qG@G  
=qG@F0  
=qG@Fp  
=qJ`G@&.zGtr(hURrG@Fp  
=qG@FG@F G@F@J <gG@&tr(hURrG@F@G@FG@F  
=qG@FJ&G@&=p  
=tr(hURrG@FG@F  
=qG@F`G@F  
=qJPEG@&)(tr(hURrG@FG@GG@FG@F  
=qJ}G@&zGtr(hURrG@GG@GG@E@G@EP  
=qJ7!G@%zGtr(hURrG@D  
=qG@EP  
=qG@DG@E JpyG@\$Gztr(hURrG@E G@E0  
=qG@D  
=qG@D



=qJwG@\$zGtr(hURrG@CG@EG@CG@D)p  
=JPG@\$B\tr(hURrG@Dp  
=qG@DG@CG@CJG@#Qtr(hURrG@C  
=qG@D0  
=qG@CG@C  
=qJG@#Qtr(hURrG@D  
=qG@D@G@C  
=qG@D  
=qJ}G@#  
=ptr(hURrG@D@G@Dp  
=qG@DG@D0  
=qJPJtG@#\tr(hURrG@D`G@D`G@C  
=qG@D  
=qJqVG@#  
=ptr(hURrG@D  
=qG@D  
=qG@D  
=qG@D  
=qJ4oG@\$zGtr(hURrG@EG@E  
=qG@D0  
=qG@D@J`G@\$Qtr(hURrG@D`G@D`G@CG@D@J0G@\$Qtr(hURrG@D0  
=qG@DG@DG@DgzHJmG@\$.zGtr(hURrG@DG@E0  
=qG@Dp  
=qG@E'zHJG@\$Qtr(hU RrG@E  
=qG@E  
=qG@E  
=qG@E  
=qJ:G@%\tr(hU  
RrG@E  
=qG@FQG@E  
=qG@EJaG@%Qtr(hU  
RrG@EG@F@G@EG@EJ`nG@%zGtr(hURrG@EG@F  
=qG@EP  
=qG@ExQJ@ZG@%GzHtr(hURrG@EG@EG@E@G@EGzHJpdG@%tr(hURrG@E  
=qG@EG@EP  
=qG@EQJWwG@%fffftr(hURrG@Ep  
=qG@EG@E@G@E@J@BG@%\tr(hURrG@EP  
=qG@E`G@Dp  
=qG@DJpG@\$QRtr(hURrG@DP  
=qG@DG@D  
=qG@DgzHJP<G@\$=p  
=tr(hURrG@D  
=qG@D  
=qG@DG@DQJ0G@#Qtr(hURrG@D  
=qG@D0  
=qG@C@G@CJ@G6G@#W  
=ptr(hURrG@C G@CG@CzGG@C J G@"\tr(hURrG@C@G@C  
=qG@CG@CJyG@#zGtr(hURrG@CG@D

=qG@C\(\G@DJptzG@#Rtr(hURrG@D  
=qG@D`G@CG@DJG@#Rtr(hURrG@CG@DXQG@CG@D  
Jp)OG@#(\tr(hURrG@CG@DG@CG@CJ`HG@#33333tr(hURrG@C  
=qG@C  
=qG@C G@C'zHJbRG@#tr(hURrG@C`G@D  
=qG@BG@CzHJG@#Qtr(hU RrG@C  
=qG@D0  
=qG@C  
=qG@CJ0dkG@#33333tr(hU  
RrG@C  
=qG@D0  
=qG@C  
=qG@CJ@KG@#zGtr(hU  
RrG@C  
=qG@C  
=qG@CG@C  
=qJPG@"fffftr(hURrG@C G@C G@A@G@AJG@!W  
=ptr(hURrG@AG@B G@Ap  
=qG@AJ`G@!W  
=ptr(hURrG@AG@BG@AG@AJG@!zG{tr(hURrG@AG@AG@Ap  
=qG@A  
=qJ@uG@!kQtr(hURrG@A  
=qG@A  
=qG@AG@AJgG@!zG{tr(hURrG@AG@B`G@AG@B J`G@!\(tr(hURrG@B G@CG@B  
G@CzHJ0eG@"\tr(hURrG@B  
=qG@CG@B}p  
=G@B  
=qJ@\G@"fffftr(hURrG@B  
=qG@B  
=qG@BG@BJEG@"Qtr(hURrG@B  
=qG@B  
=qG@BP  
=qG@BQJMG@"p  
=qtr(hURrG@B G@B+QG@A  
=qG@A0  
=qJ6xG@!  
=p  
tr(hURrG@AG@Ap  
=qG@@  
=qG@A0  
=qJG@!  
=p  
tr(hURrG@AP  
=qG@AG@A@G@A  
=qJ  
G@!=p  
tr(hURrG@A  
=qG@A

=qG@A`G@AJ0dG@!zG{tr(hURrG@AG@AG@A  
=qG@AJYTG@!tr(hURrG@AG@A  
=qG@@  
=qG@@  
=qJuG@ tr(hURrG@A  
=qG@A`G@@G@A`J0G@!8Qtr(hURrG@BG@CG@A  
=pG@B`Jp G@"8Qtr(hURrG@BG@B  
=qG@B G@B`J`+G@"8Qtr(hU  
RrG@Bp  
=qG@BG@B  
=qG@BP  
=qJB@G@"()\tr(hURrG@B`G@B  
=qG@BP  
=qG@BJpuG@"Qtr (hURr  
G@C G@C  
=qG@B  
=qG@CJG@#W  
=ptr(hU  
RrG@CG@CG@B  
=qG@C J`@\_G@"\tr  
(hURrG@C  
=qG@C  
=qG@B  
=qG@C0  
=qJPqG@#Qtr(hURrG@C@G@CP  
=qG@BG@BJ ~G@"zGtr(hURrG@BG@BG@A  
=qG@B0  
=qJrG@"  
=p  
tr(hURrG@B  
=qG@C@G@BP  
=qG@B  
=qJG@"\tr(hURrG@BG@CG@B  
=qG@C  
=qJ0YkG@#fffftr(hURrG@CG@C  
=qG@C@G@CJaG@#W  
=ptr(hURrG@C  
=qG@C  
=qG@BG@BJ ;G@"Qtr(hURrG@B  
=qG@C`G@B  
=qG@C J}G@"\tr(hURrG@C@G@C@G@BG@B  
=qJLG@"zHtr(hURr G@CG@C0  
=qG@BG@C JjG@"\tr!(hURr"G@C G@C`G@CG@C JHaG@"\tr#(hURr\$G@C G@C0  
=qG@BG@C  
=qJrAG@"fffftr%(hURr&G@C G@CP  
=qG@CG@C  
=qJ7\G@"fffftr'(hURr(G@C G@C  
=qG@CG@C@JPG@#zGtr)(hURr\*G@C`G@C

=qG@C  
=qG@Cp  
=qJqG@#GzHtr+(hURr,G@C  
=qG@DG@CG@D@J@G@\$zGtr-(hU Rr.G@DP  
=qG@D  
=qG@DG@DJ@G@\$p  
=qtr/(hU  
Rr0G@DG@D  
=qG@D`G@DQJ G@\$=p  
tr1(hURr2G@D  
=qG@D  
=qG@D0  
=qG@DJPG@\$QRtr3(hURr4G@Dp  
=qG@EQG@D@G@E  
=qJ0JaG@%Qtr5(hURr6G@E  
=qG@EG@E@G@E  
=qJPoG@%Qtr7(hURr8G@E  
=qG@F0  
=qG@E@G@EJ0G@%zGtr9(hURr:G@EG@F0  
=qG@EG@FJG@%Rtr;(hURr<G@F  
=qG@F  
=qG@EG@E  
=qJG@%tr=(hURr>G@Ep  
=qG@EG@EP  
=qG@E`JG@%333333tr?(hURr@G@E@G@F  
=qG@E G@F  
=qJ`G@%GztrA(hURrBG@F  
=qG@F0  
=qG@EG@E  
=qJpG@%\trC(hURrDG@EG@F G@Ep  
=qG@EJVG@%\trE(hURrFG@EG@FG@EG@E  
=qJ`cG@%trG(hURrHG@EG@E  
=qG@E G@EXQJ@>G@%8QtrI(hURrJG@EP  
=qG@Ep  
=qG@DG@EJ"kG@\$GztrK(hURrLG@E  
=qG@E  
=qG@DG@DzHJPWG@\$)trM(hURrNG@D  
=qG@E@G@DG@EQJfG@\$G{trO(hURrPG@D  
=qG@E0  
=qG@DG@E  
=qJ 9G@\$  
=qtrQ(hURrRG@E0  
=qG@EG@E  
=qG@EJ`G@%QtrS(hURrTG@E  
=qG@F0  
=qG@EG@FJG@%GztrU(hURrVG@F  
=qG@F  
=qG@E

=qG@E  
=qJCG@%p  
=qtrW(hURrXG@E  
=qG@E  
=qG@E  
=qG@ExQJ`JG@%W  
=ptrY(hU RrZG@E  
=qG@EG@E  
=qG@EJeG@%Qtr[(hURr\G@FG@F@G@E  
=qG@F\{JsG@%\{tr}(hU  
Rr^G@F@G@FP  
=qG@E  
=qG@FJ`DG@%Gztr\_(hURr`G@E  
=qG@E  
=qG@E  
=qG@E  
=qJ w@G@%zGtra(hURrbG@E  
=qG@EG@E  
=qG@E  
=qJ2G@%zGtrc(hURrdG@E  
=qG@FG@EG@E  
=qJ 0G@%Rtre(hURrfG@E  
=qG@FG@EG@F0  
=qJG@&\{trg(hURrhG@GG@GG@GG@G  
=qJ0G@%\{tri(hURrjG@G  
=qG@I  
=qG@G`G@H  
=qJ0yUG@ (=p  
trk(hURrlG@HG@H  
=qG@HP  
=qG@H  
=qJ PG@(kQtrm(hURrnG@H`G@HG@GG@H`JPr~G@ (=p  
=tro(hURrpG@H G@H@G@G  
=qG@H  
=qJfSG@'Qtrq(hURrrG@G  
=qG@H G@G0  
=qG@G0  
=qJvG@%\{trs(hURrtG@GG@GG@F  
=qG@GP  
=qJ@oG@'.zGtru(hURrvG@G0  
=qG@H  
=qG@GG@GJ~G@'zG{trw(hURrxG@GG@G  
=qG@G  
=qG@G8QJrZG@'zGtry(hURrzG@G@G@G  
=qG@G G@GxQJG@'W  
=ptr{(hURr|G@Gp  
=qG@G  
=qG@G@G@G@J`G@'Qtr}(hURr~G@G@G@GG@FG@GJsdG@%\{tr(hURrG@Gp

=qG@HG@G`G@HP  
=qJ.G@(.zGtr(hU  
RrG@HP  
=qG@H  
=qG@H  
=qG@HP  
=qJ]G@(.zGtr(hURrG@GG@HP  
=qG@GzHG@G  
=qJ<uG@'kQtr(hURrG@GG@HG@G  
=qG@GJG@'\(tr(hU  
RrG@G  
=qG@H`G@G  
=qG@G  
=qJ4G@'zGtr(hURrG@G  
=qG@HG@GG@H`JG@ (=p  
=tr(hURrG@Hp  
=qG@HG@HP  
=qG@HJ{G@'\(tr(hURrG@HG@HzHG@GG@H  
=qJG@'Qtr(hURrG@GG@HG@FG@FJG@&Qtr(hURrG@GG@G  
=qG@FG@GzHJ`G@'ffffftr(hURrG@EG@Fp  
=qG@EG@EJ>G@%p  
=tr(hURrG@FG@FG@EG@F  
=qJ,uG@&'\(tr(hURrG@GG@G0  
=qG@F  
=qG@FJG@&p  
=tr(hURrG@G G@G G@F  
=qG@F  
=qJv]G@&'\(tr(hURrG@FG@GG@FG@GgzHJPSG@'B'\(tr(hURrG@G`G@GG@FG@FJG@&Qtr(hURrG@FG  
@F  
=qG@F`G@FJVG@&'\(tr(hURrG@Fp  
=qG@Fp  
=qG@EG@EJ  
sG@%Qtr(hURrG@E  
=qG@FG@EG@F0  
=qJ(G@&'\(tr(hURrG@F  
=qG@F  
=qG@E  
=qG@FJtG@&'\(tr(hURrG@FG@F  
=qG@EG@F J0iG@&tr(hURrG@F  
=qG@FP  
=qG@E  
=qG@E  
=qJ@iG@%'\(tr(hURrG@E  
=qG@EG@E0  
=qG@E@JG@%Qtr(hU RrG@EP  
=qG@EG@E@G@E  
=qJpCG@%p  
=qtr(hU

RrG@E  
=qG@EG@EP  
=qG@E`JYG@%B\(\tr(hURrG@Ep  
=qG@E  
=qG@D  
=qG@EzHJqG@%ffffftr(hURrG@EG@EG@Ep  
=qG@E  
=qJp[G@%\(\tr(hURrG@E  
=qG@F  
=qG@E  
=qG@FzHJ0G@%ffffftr(hURrG@FG@F@G@E  
=qG@F@JG@&.zGtr(hURrG@FP  
=qG@FG@F  
=qG@FP  
=qJG@&=p  
=tr(hURrG@Fp  
=qG@F  
=qG@EG@Fp  
=qJG@&aGztr(hURrG@Fp  
=qG@F  
=qG@F  
=qG@F  
=qJpUG@&tr(hURrG@F0  
=qG@F  
=qG@F  
=qG@F`JpvG@&Ltr(hURrG@Fp  
=qG@F  
=qG@FP  
=qG@FJG@&zGtr(hURrG@F  
=qG@G G@FG@FJG@&tr(hURrG@F  
=qG@F  
=qG@FP  
=qG@F`JIG@&Ltr(hURrG@Fp  
=qG@FG@EG@EJ@rG@%p  
=qtr(hURrG@EG@EG@E@G@E  
=qJG@%tr(hURrG@EG@EG@E  
=qG@E  
=qJSG@%Qtr(hURrG@E  
=qG@EG@EG@EJ0G@%p  
=qtr(hU RrG@EG@EG@Ep  
=qG@ExQJp5G@%ffffftr(hU RrG@EG@EG@E`G@EJPbG@%zGtr(hU RrG@E  
=qG@F(G@EG@EJ)mG@%tr(hU RrG@FG@FzHG@EG@F`JG@&Ltr(hU RrG@F`G@Fp  
=qG@F@G@F`JC\_G@&Ltr(hU RrG@Fp  
=qG@FG@F G@F J^G@&\(\tr(hU RrG@F@G@Fp  
=qG@EP  
=qG@ExQJ0G@%ffffftr(hU  
RrG@Ep  
=qG@E

=qG@EG@E0  
=qJ0G@%Qtr(hU RrG@D  
=qG@D  
=qG@CG@DJ9,G@#  
=qtr(hU RrG@B  
=qG@C  
=qG@AG@A  
=qJG@!Gztr(hU RrG@B0  
=qG@BgzHG@A  
=qG@BXQJRG@"GzHtr(hU RrG@B`G@B  
=qG@B  
=qG@B`J7G@"QRtr(hU RrG@BG@B  
=qG@B@G@BP  
=qJ}G@"B\tr(hU RrG@B@G@BG@B0  
=qG@BJ0SG@"p  
=qtr(hU RrG@Bp  
=qG@BG@B0  
=qG@BzHJPG@"zG{tr(hU RrG@C G@C"\G@B  
=qG@B\JG@"33333tr(hU RrG@BG@B  
=qG@B  
=qG@B  
=qJG@"  
=ptr(hU RrG@BG@BG@A`G@B J5G@"\tr(hU RrG@B@G@B  
=qG@B@G@BJG@"Rtr(hU RrG@CG@C G@Bp  
=qG@BJwG@"\tr(hU  
RrG@BG@C@G@BG@B  
=qJG@"\tr(hU  
RrG@C  
=qG@C@G@B  
=qG@B  
=qJ4G@"\tr(hU  
RrG@BP  
=qG@BG@BG@B0  
=qJ`rG@"#  
=ptr(hU  
RrG@B G@BP  
=qG@A  
=qG@B@J@SG@"333333tr(hU  
RrG@B`G@BG@A  
=qG@AQJPG@!zHtr(hU  
RrG@A  
=qG@AG@A0  
=qG@AgzHJ`BG@!\tr(hU  
  
RrG@A0  
=qG@AG@@  
=qG@AXQJpAG@!Ltr(hU  
RrG@AG@A



=qG@A  
=qG@Ap  
=qJyG@!aGztr(hU  
RrG@AG@A  
=qG@A`G@AzHJXG@!tr (hU  
  
Rr  
G@AG@Bp  
=qG@AG@BJpG@!  
=qtr(hU  
RrG@B G@BG@A  
=qG@B  
=qJjcG@"tr  
(hU  
RrG@B@G@Bp  
=qG@A  
=qG@BP  
=qJaG@"B)\(tr(hU  
RrG@BG@CzHG@B`G@B  
=qJ hG@"  
=ptr(hU  
RrG@A  
=qG@B  
=qG@A`G@A`J`G@!QRtr(hU  
RrG@AG@AG@AP  
=qG@A  
=qJG@!Qtr(hU  
RrG@A  
=qG@A  
=qG@A`G@A  
=qJpIG@!Qtr(hU  
RrG@AG@AG@Ap  
=qG@A  
=qJtG@!Qtr(hU  
RrG@AG@A  
=qG@A`G@A`JpHG@!QRtr(hU  
RrG@Ap  
=qG@AG@A@G@Ap  
=qJ0DG@!aGztr(hU  
RrG@Ap  
=qG@Ap  
=qG@A  
=qG@A`JGTG@!QRtr(hU  
Rr G@Ap  
=qG@AG@AP  
=qG@AJ\_G@!zGtr!(hU  
Rr"G@AG@BP  
=qG@A

=qG@B'zHJG@"tr#(hURr\$G@BP  
=qG@B  
=qG@AG@BP  
=qJiG@"B\(\tr%(hURr&G@Bp  
=qG@Bp  
=qG@B G@BP  
=qJPaSG@"B\(\tr'(hURr(G@B`G@Bp  
=qG@A  
=qG@B@JaG@"333333tr)(hURr\*G@B@G@C`G@B0  
=qG@C  
=qJ G@#tr+(hURr,G@BG@D@G@BG@C  
=qJxG@#\(\tr-(hURr.G@CG@DG@C`G@Cp  
=qJ0G@#aGztr/(hU Rr0G@CG@DG@Cp  
=qG@C  
=qJ`G@#Qtr1(hU  
Rr2G@C  
=qG@D G@Cp  
=qG@CJPyG@#Rtr3(hU  
Rr4G@D G@DG@DG@Dp  
=qJ`G@\$aGztr5(hURr6G@DG@E@G@DG@DJ+G@\$zGtr7(hURr8G@EG@EG@D  
=qG@DJiG@\$p  
=qtr9(hURr:G@Dp  
=qG@DG@CG@CQJp{G@#fffftr;(hURr<G@DG@D0  
=qG@CG@D  
=qJpNFG@\$tr=(hURr>G@D G@D G@C@G@CP  
=qJ`QG@#B\(\tr?(hURr@G@C`G@C`G@B  
=qG@CP  
=qJshG@#QRtrA(hURrBG@CP  
=qG@CG@C@G@CP  
=qJ 5G@#QRtrC(hURrDG@Cp  
=qG@D0  
=qG@C`G@DQJ;G@\$trE(hURrFG@DP  
=qG@DP  
=qG@C  
=qG@C  
=qJ@N?G@#333333trG(hURrHG@C  
=qG@D  
=qG@CG@DJ5`G@\$trI(hURrJG@D  
=qG@D  
=qG@CG@CJp9G@#QtrK(hURrLG@Cp  
=qG@CG@CG@C  
=qJT\_G@#\(\trM(hURrNG@CG@C G@B  
=qG@B  
=qJfoG@"RtrO(hURrPG@D  
=qG@D  
=qG@CG@CJG@#\(\trQ(hURrRG@C@G@C  
=qG@C G@CJ@JG@#\(\trS(hURrTG@CG@C  
=qG@C0

=qG@C`J@mG@#aGztrU(hURrVG@C`G@C`G@B  
=qG@CGzHJMG@#GzHtrW(hURrXG@C`G@C  
=qG@B  
=qG@C  
=qJMG@#33333trY(hURrZG@CG@C  
=qG@C0  
=qG@CP  
=qJ=G@#QRtr[(hURr\G@CP  
=qG@CP  
=qG@CG@CJ0`G@#tr](hU  
Rr^G@C G@CG@B`G@C0  
=qJPkuG@#33333tr\_(hURr`G@Cp  
=qG@C  
=qG@CG@C JG@#Qtra(hURrbG@AG@BP  
=qG@A0  
=qG@AJ@G@!Qtrc(hURrdG@A  
=qG@AG@?QG@@ JpFkG@ Qtre(hURrfG@@`G@@G@@ G@@`JP  
G@ aGztrg(hURrhG@@G@@  
=qG@@@G@@P  
=qJG@ QRtri(hURrjG@@`G@@`G@?QG@@@JyG@ =p  
=trk(hURrlG@@P  
=qG@@p  
=qG@@  
=qG@@ JG@ Qtrm(hURrnG@@@@G@@@@G@?G@@zHJ6LG@  
=p  
tro(hURrpG@@  
=qG@@  
=qG@?QG@@0  
=qJG@ 33333trq(hURrrG@@  
=qG@@`G@?QG@@JPOG@ trs(hURrtG@@G@@0  
=qG@?QG@?QJ G@Gztru(hURrvG@@ G@@ G@?G@@  
=qJ LG@ \((trw(hURrxG@@G@@p  
=qG@?QG@@  
=qJ`G@ \((try(hURrzG@@0  
=qG@@0  
=qG@?^QG@?\(JG@\((tr{(hURr|G@?QG@A G@?^QG@A JpG@!Qtr}(hURr~G@A@G@AG@AG@AP  
=qJ=BG@!QRtr(hU RrG@AP  
=qG@AP  
=qG@@`G@@@`JpG@ aGztr(hU  
RrG@@@@G@A`G@@ G@A J@>G@!Qtr(hURrG@@P  
=qG@AG@@0  
=qG@AJG@!tr(hURrG@A`G@A`G@@@@G@@  
=qJDG@  
=qtr(hURrG@@G@A@G@@  
=qG@A  
=qJG@!\(tr(hURrG@A0  
=qG@A`G@@  
=qG@AGzHJ[G@!GzHtr(hURrG@A0

=qG@A0  
=qG@@G@AJG@!tr(hURrG@@@p  
=qG@@  
=qG@>^QG@?  
=qJ@|G@\\tr(hURrG@?G@?G@=^QG@=QJ0G@Gztr(hURrG@=G@?G@=@G@>JgG@zG{tr(hURrG@@G@  
AG@?G@?QJG@  
=ptr(hURrG@@@  
=qG@@G@?G@@JeG@Qtr(hURrG@?G@@G@>QG@>@JG@=p  
=tr(hURrG@>^QG@?@G@<QG@>QJEG@  
=ptr(hURrG@=G@=G@<G@=QJ^G@Qtr(hURrG@;G@<QG@:(\\G@;O\\(JuSG@QRtr(hURrG@;G@<G@;^QG  
@;QJG@  
=ptr(hURrG@;G@<^QG@;G@<^QJG@\\(\\tr(hURrG@<QG@=QG@<G@=@J/G@=p  
=tr(hURrG@=  
=qG@=G@=G@=@J0G@=p  
=tr(hURrG@=@G@>G@=@G@=QJP{G@  
=ptr(hURrG@=G@=G@;G@<@JG@=p  
=tr(hURrG@;G@<QG@;G@;QJG@Gztr(hURrG@;QG@<G@;QG@;J  
QpG@\\tr(hURrG@<QG@<G@<G@<^QJjG@\\(\\tr(hU  
RrG@<G@<QG@;QG@<QJ|G@Qtr(hURrG@<@G@<@G@;p  
=qG@;QJ\*YG@  
=ptr(hURrG@;QG@<QG@;^QG@<J@BG@tr(hURrG@<QG@<^QG@;G@;J|UG@Qtr(hURrG@<G@=G@<G  
@=JG@tr(hURrG@=^QG@=G@=QG@=QJxG@  
=ptr(hURrG@>G@>QG@=QG@=QJ^dG@Gztr(hURrG@=QG@>@G@=QG@=QJ^G@Gztr(hURrG@>G@>Q  
G@=G@=J@G@Qtr(hURrG@=QG@=QG@<G@<QJYQG@  
=ptr(hURrG@<QG@<QG@;QG@;J^fG@\\tr(hURrG@;G@;G@;@G@;J0=G@Qtr(hURrG@;QG@;QG@:QG@:  
QJ~G@Gztr(hURrG@;@G@;^QG@:@G@:@J@^fG@=p  
=tr(hURrG@:G@:G@:@G@:QJ@G@  
=ptr(hURrG@:G@:QG@:QG@:0  
=qJ!6G@333333tr(hURrG@:@G@:^QG@9^QG@9\\(JpG@tr(hURrG@9G@:@G@9G@:J6QG@tr(hURrG@:@  
G@:^QG@9G@9QJYEG@Gztr(hURrG@:G@:^QG@9QG@9\\(J4G@tr(hU  
RrG@9QG@:QG@9QG@9J@R6G@\\tr(hURrG@9QG@9QG@9G@9QJ@3G@  
=ptr(hURrG@:G@:G@9G@9QJm7G@Gztr(hURrG@9  
=qG@:QG@9G@:QJ;G@Qtr(hURrG@:^QG@:G@9QG@9JCG@\\tr(hURrG@9G@9G@9QG@9@Je?G@=p  
=tr(hURrG@9G@9G@9G@9QJ<G@Qtr(hURrG@9@G@9^QG@8QG@9^QJ^:G@\\tr(hURrG@9G@9G@8G  
@8JpYG@tr(hURrG@8G@8G@7QG@7QJWG@Gztr(hURrG@7@G@9@G@7G@9@J0  
G@=p  
=tr(hURrG@8G@9QG@8QG@80  
=qJPG@333333tr(hURrG@8@G@8G@7G@8\\(JZG@\\tr(hURrG@9QG@9QG@8QG@9JVG@Qtr(hURrG@9Q  
G@9QG@8QG@9Jy7G@tr(hURrG@9QG@9QG@8TzGG@8\\(J^G@\\tr(hURrG@8QG@8QG@8G@8QJ  
/G@Qtr(hURrG@7QG@8G@7G@8^QJB\\G@\\tr(hURrG@8QG@:G@8^QG@:JpiG@tr(hU  
RrG@:QG@:G@9QG@:J^@\_G@tr(hURrG@:QG@:@G@9G@9J5G@\\tr(hURrG@9QG@9QG@9^QG@9Jp.G  
@Qtr(hURrG@9G@9G@9G@9JP)TG@\\tr(hURrG@9QG@:G@9QG@9QJt7G@Gztr(hURr  
G@9QG@:G@9QG@9@J.G@=p  
=tr(hURrG@9^QG@9c  
=pG@8@G@8JvG@\\tr  
(hURrG@8QG@9QG@8QG@9\\(J7G@  
=p  
tr(hURrG@9@G@9G@8QG@9QJP<G@Qtr(hURrG@9QG@9@G@8QG@8J\\G@\\tr(hURrG@8QG@8G@80

=qG@8@J@\$FG@=p  
=tr(hURrG@8^QG@8QG@8QG@8QJPK\_G@Gztr(hURrG@9G@9QG@8QG@8J  
#gG@(\tr(hURrG@9G@9G@8G@8JAG@(\tr(hURrG@8QG@8QG@8QG@8^QJ0{JG@(\tr(hURrG@8^QG@8  
G@8QG@8^QJ =G@(\tr(hURr  
G@8G@8G@7G@7J@fG@(\tr!(hURr"G@8QG@8QG@7G@7QJd;G@Gztr#(hURr\$G@8QG@9QG@8G@9QJ  
G@  
=ptr%(hURr&G@:^QG@;^QG@:@G@:QJG@Gztr'(hURr(G@;@G@;@G@9QG@:J fG@(\tr)(hU  
Rr\*G@:^QG@:G@9G@:QJ5G@Qtr+(hU  
Rr,G@:@G@;^QG@:G@;@J<G@=p  
=tr-(hU  
Rr.G@;QG@;QG@:QG@;(\J@fG@  
=p  
tr/(hURr0G@;G@<G@;G@;J kG@Qtr1(hURr2G@;QG@<QG@;G@<JVG@zG{tr3(hURr4G@<@G@<QG@;Q  
G@<^QJ FG@(\tr5(hURr6G@<^QG@<^QG@;G@;QJ^9CG@  
=ptr7(hURr8G@;QG@<QG@;QG@;  
=qJ@7.G@(\tr9(hURr:G@<G@<QG@;QG@;QJ^>G@Qtr;(hURr<G@;^QG@;^QG@9G@:(JnG@  
=p  
tr=(hURr>G@:QG@:QG@9G@:@JpCG@=p  
=tr?(hURr@G@:@G@:QG@:QG@:J=G@(\trA(hURrBG@:G@;@G@:^QG@:^QJ07G@(\trC(hURrDG@:@G  
@:@G@8G@8QJwG@GztrE(hURrFG@8QG@9G@8G@9J08G@QtrG(hURrHG@9QG@:QG@9G@:QJ^XG@  
QtrI(hURrJG@9QG@:G@8G@8J^DG@(\trK(hURrLG@8G@8^QG@7QG@80  
=qJG@333333trM(hURrNG@9^QG@9G@8G@9QJ #G@QtrO(hURrPG@9G@9@G@8QG@8@J0nG@=p  
=trQ(hURrRG@8G@8^QG@7G@8^QJG@(\trS(hU  
RrTG@8^QG@8G@8G@8QJM:G@QtrU(hURrVG@8@G@8@G@8G@8JSG@trW(hURrXG@8G@8G@8G@  
8@JSG@=p  
=trY(hU  
RrZG@8^QG@8QG@8G@8QJ^hG@  
=ptr[(hURr\G@8G@8G@7QG@7  
=qJ\$OG@(\tr](hURr^G@8QG@8QG@7QG@7QJ =G@  
=ptr\_(hURr`G@7QG@7G@6QG@6JyG@(\tra(hURrbG@7QG@7^QG@6QG@7QJLIG@Qtrc(hURrdG@7^QG  
@7^QG@6G@6JFPG@(\tre(hURrfG@6QG@6QG@6^QG@6QJaXG@  
=ptrg(hURrhG@6QG@6QG@6QG@6@JCG@=p  
=tri(hURrjG@6QG@6@G@4^QG@4QJG@  
=ptrk(hURrlG@4QG@4G@3QG@3QJ^Yg@Gztrm(hURrmG@4G@5G@3G@4QJ{)G@  
=ptro(hURrpG@4QG@5G@4QG@5J\$?G@trq(hURrrG@5QG@5G@5G@5J5HG@Qtrs(hURrtG@5^QG@5G@  
5G@5J0G@tru(hURrvG@4^QG@4^QG@3^QG@3^QJG@(\trw(hURrxG@3^QG@3G@3@G@3J  
:G@Qtry(hURrzG@3QG@3QG@3G@3QJ.gG@Qtr{(hU Rr|G@3G@3QG@3G@3JfG@tr}{hU  
Rr~G@3QG@3G@2G@2J e\G@(\tr(hURrG@2G@2QG@1^QG@1QJ  
G@Gztr(hURrG@2^QG@2^QG@1@G@2\J0G@  
=p  
tr(hURrG@2QG@2QG@1QG@10  
=qJHG@333333tr(hURrG@1^QG@1^QG@0G@0QJG@Gztr(hURrG@1^QG@1G@0QG@0QJG@Gztr(hURrG  
@5G@5G@4\(\G@4QJ-  
G@Gztre(hURrG@4QG@5G@4G@4JpG@(\tr(hURrG@4QG@4QG@4G@4@JBSG@=p  
=tr(hURrG@4G@4QG@4@G@4JFG@zG{tr(hURrG@4G@5G@3QG@4\J^-  
G@tr(hURrG@5QG@5^QG@4G@5Jk>G@tr(hURrG@5G@6G@5QG@6J0CG@tr(hURrG@6G@6G@5G@6@  
JjG@=p  
=tr(hURrG@6QG@6G@5@G@5^QJ@gG@(\tr(hURrG@5@G@6G@5@G@6J02G@tr(hURrG@6G@6G@5Q

G@5@J(<G@=p  
=tr(hURrG@5QG@6G@5@G@5QJPEg@  
=ptr(hURrG@5QG@5QG@4QG@5J`7G@tr(hURrG@5G@5G@4G@5J03G@Qtr(hURrG@5G@6QG@5QG@6  
^QJG@\\(tr(hURrG@6^QG@6^QG@5QG@6QJ7G@Qtr(hU  
RrG@6@G@7^QG@6QG@7QJ}G@Qtr(hURrG@7^QG@7QG@6^QG@7JRG@tr(hU  
RrG@6QG@7QG@6^QG@6J  
8G@zG{tr(hURrG@6QG@7G@6QG@6J7'G@\\(tr(hURrG@6QG@6G@6@G@6@J:G@=p  
=tr(hURrG@6QG@6QG@6QG@6JrMG@zG{tr(hURrG@6^QG@7QG@6^QG@7QJ}{G@  
=ptr(hURrG@7QG@7QG@7^QG@7JplsG@Qtr(hURrG@7G@7QG@6QG@7J=G@tr(hURrG@7G@7@G@6Q  
G@7@J/G@=p  
=tr(hURrG@7G@8G@7G@7QJ0oG@Gztr(hURrG@7QG@8QG@7G@8QJ00G@Qtr(hURrG@8QG@9G@8G  
@8\\JG@Gztr(hURrG@8QG@9G@8G@8QJ-  
YG@Gztr(hURrG@8QG@8QG@8^QG@8Jm:G@zG{tr(hURrG@8G@8G@8@G@8@J`9G@=p  
=tr(hU RrG@8QG@8^QG@7QG@8QJ%G@Qtr(hU RrG@7QG@8QG@7QG@8QJ|7G@Qtr(hU  
RrG@7G@7G@6QG@6QJ`G@Gztr(hU RrG@7QG@7@G@6QG@7JAG@tr(hU  
RrG@6QG@6G@5QG@6JPG@tr(hU  
RrG@6QG@6QG@5G@5JTG@Qtr(hU RrG@5G@5G@5G@5QJp]PG@Qtr(hU  
RrG@5G@5QG@4@G@4^QJ`G@\\(tr(hU  
RrG@4^QG@5@G@4^QG@5J|G@tr(hU RrG@5G@7G@5^QG@6^QJPzG@\\(tr(hU  
RrG@6QG@7QG@6G@7Jp@rG@tr(hU RrG@7G@8QG@6QG@7JG@Qtr(hU  
RrG@7QG@7QG@7^QG@7^QJVAG@\\(tr(hU RrG@7^QG@7G@6G@6QJpWQG@Gztr(hU  
RrG@6QG@6QG@6^QG@6^QJ;G@\\(tr(hU RrG@6^QG@6QG@6^QG@6J0|NG@zG{tr(hU  
RrG@6G@6QG@6G@6^QJ;G@\\(tr(hU RrG@6^QG@6G@6@G@6^QJ `8G@\\(tr(hU  
RrG@6@G@6^QG@6QG@60\\(J ,G@QRtr(hU RrG@6QG@6^QG@6QG@60  
=qJP.G@333333tr(hU  
RrG@6G@8G@6G@8QJP&G@  
=ptr(hU  
RrG@7QG@8QG@7QG@7QJG@  
=ptr(hU  
RrG@7QG@7G@6^QG@6^QJ4|G@\\(tr(hU  
RrG@6QG@7QG@6QG@6\\JHG@tr(hU  
RrG@7G@7^QG@6QG@7QJQ4G@Qtr(hU  
RrG@7G@8@G@7@G@7@JPgG@=p  
=tr(hU  
RrG@7^QG@7QG@6QG@7Ju.G@tr(hU  
  
RrG@7QG@8G@7G@80  
=qJ@G@333333tr(hU  
RrG@8^QG@8QG@8G@8@JBG@=p  
=tr(hU  
RrG@8G@9^QG@8@G@9@J0<G@=p  
=tr(hU  
RrG@9G@9QG@9G@9@JG@=p  
=tr(hU  
RrG@9@G@:QG@8QG@9J G@\\(tr(hU  
Rr  
G@;G@;G@:^QG@:^QJ /G@\\(tr(hU  
RrG@:G@:QG@:G@:\\J0G@\\(tr

(hU  
RrG@:G@:QG@9G@9QJjfG@  
=ptr(hU  
RrG@9QG@9QG@8@G@8QJtG@Gztr(hU  
RrG@8G@9@G@8^QG@8J^WG@\\(tr(hU  
RrG@9G@9G@8G@8J.G@\\(tr(hU  
RrG@8QG@9G@8G@8J0Z\*G@zG{tr(hU  
RrG@9QG@9QG@8G@8J qAG@zG{tr(hU  
RrG@8QG@8G@7QG@7@JIG@=p  
=tr(hU  
RrG@7G@8G@6QG@6QJ@BG@Gztr(hU  
RrG@7@G@7^QG@6@G@7J@iG@tr(hURr G@7^QG@8@G@7QG@8@JgsG@=p  
=tr!(hURr"G@8^QG@8G@7G@8^QJ1G@\\(tr#(hURr\$G@8G@9QG@8G@9J  
CG@Qtr%(hURr&G@9QG@9G@8QG@9J0bG@Qtr'(hURr(G@9^QG@:G@9@G@9QJTG@Gztr)(hURr\*G@9  
QG@:@G@9G@:@JPgG@=p  
=tr+(hURr,G@:^QG@:^QG@9QG@:J2G@tr-(hURr.G@:QG@:@G@9QG@9@J NG@=p  
=tr/(hU  
Rr0G@9^QG@9QG@9G@9\\(J-G@\\(tr1(hURr2G@9G@9G@9^QG@9QJG@  
=ptr3(hURr4G@9QG@:G@9G@9JpzGG@tr5(hURr6G@9G@9QG@8G@8JrSG@\\(tr7(hURr8G@8QG@9QG@  
8QG@8QJCG@Gztr9(hURr:G@8QG@9^QG@8QG@9J38G@tr;(hURr<G@8QG@9G@8^QG@8J  
)&G@zG{tr=(hURr>G@8G@9@G@8G@9@J8G@=p  
=tr?(hURr@G@9^QG@9G@9G@9J1+G@trA(hURrBG@8QG@9G@8G@8@J=G@=p  
=trC(hURrDG@8QG@8QG@8QG@8J0G@zG{trE(hURrFG@8G@8QG@8G@8QJ0OG@QtrG(hURrHG@8QG  
@9QG@7QG@9QJ@o\_G@QtrI(hURrJG@9@G@9G@9G@9QJ(G@QtrK(hURrLG@9QG@9^QG@8QG@9Jh  
G@trM(hURrNG@9G@9@G@9G@9J^MG@trO(hURrPG@8^QG@9^QG@8G@9QJpI}G@QtrQ(hU  
RrRG@9@G@9^QG@8\\(G@9JVG@trS(hU  
RrTG@8QG@9G@8@G@8J@dG@zG{trU(hURrVG@7G@8@G@7G@8JQYG@trW(hURrXG@8QG@8@G  
@7QG@7QJ/G@GztrY(hU  
RrZG@7G@7QG@7@G@7@J 0G@=p  
=tr[(hURr^G@7G@7G@6G@6QJjQG@  
=ptr](hURr^G@6^QG@6G@6@G@6JpUG@zG{tr\_(hURr`G@6G@7QG@6QG@7QJoG@Qtra(hURrbG@7G@  
7@G@6@G@6@JJG@=p  
=trc(hURrdG@6G@7QG@5^QG@7J\*G@Qtre(hURrfG@8G@8@G@7@G@7@JPTG@=p  
=trg(hURrhG@7@G@7^QG@6QG@7QJG@Qtri(hURrjG@7@G@7@G@6QG@7J.G@trk(hURrlG@6QG@7G  
@6QG@7QJJG@Qtrm(hURrnG@7QG@7@G@5G@5JG@\\(tro(hURrpG@5^QG@5G@4G@4QJVG@Gztrq(hU  
RrrG@5QG@5@G@4G@5J^BNG@trs(hURrtG@5QG@6@G@5G@5JAG@\\(tru(hURrvG@1QG@2W  
=pG@1@G@1QJ@G@Gztrw(hURrxG@2QG@2@G@1G@1JzG@Qtry(hURrzG@2@G@2^QG@1^QG@1QJ  
WG@  
=ptr{(hU Rr|G@1G@1QG@1G@1JG@\\(tr}(hU  
Rr~G@1QG@2@G@1QG@2@J  
G@=p  
=tr(hU  
RrG@2G@2G@2QG@2QJ0G@Qtr(hURrG@2^QG@2^QG@1G@1QJG@Gztr(hURrG@2G@2G@1QG@1@J  
@AG@=p  
=tr(hURrG@1QG@1QG@0QG@0JmG@\\(tr(hURrG@0G@1QG@0QG@0JKG@\\(tr(hURrG@0QG@1QG@0G  
@0  
=qJ0  
G@\\(tr(hURrG@1G@1@G@0QG@1@JRG@=p

=tr(hURrG@1^QG@1G@1G@10  
=qJApG@333333tr(hURrG@1@G@1^QG@1QG@1@J9^G@=p  
=tr(hURrG@1@G@1@G@0QG@0QJfG@Gztr(hURrG@1QG@1@G@0QG@0QJpTg@  
=ptr(hURrG@1G@1G@0G@0QJrG@  
=ptr(hURrG@0QG@0G@0G@0QJ RG@  
=ptr(hURrG@0G@0G@0G@0JLG@\\(tr(hURrG@0QG@0QG@0G@0QJIG@  
=ptr(hURrG@0QG@1G@0@G@00\\(JG@QRtr(hURrG@0@G@0^QG@.B\\(G@.\\(JPuG@tr(hURrG@.G@/B\\(G  
@.G@.J  
G@zG{tr(hURrG@.G@0QG@.G@0JPG@tr(hURrG@0G@0G@/G@/QJ:G@tr(hU  
RrG@0QG@0QG@/B\\(G@/B\\(J8eG@GzHtr(hURrG@/\\(G@0G@/G@/aGzJp)LG@\\(tr(hURrG@/G@/\\(G@/G@  
/Jp^G@Qtr(hU  
RrG@/G@0QG@/G@0QJPKG@Qtr(hURrG@0@G@0^QG@0G@00\\(JG@QRtr(hURrG@0QG@1QG@0@G@  
1QJG@Gztr(hURrG@1QG@1QG@1QG@1QJG@  
=ptr(hURrG@1QG@1QG@1G@1JGDG@tr(hURrG@0QG@1G@0G@0^QJ1sG@\\(tr(hURrG@0@G@0QG@0  
@G@0QJ0l@G@  
=ptr(hURrG@1G@1^QG@0QG@0QJYKG@Gztr(hURrG@1G@1QG@0G@1QJD8G@Qtr(hURrG@1G@1QG  
@0G@1J u8G@tr(hURrG@0QG@0QG@0@G@0@JBG@=p  
=tr(hURrG@0G@0G@0G@0QJ0BGG@Qtr(hURrG@0@G@0G@0G@0J^I8G@zG{tr(hURrG@0QG@1G@0G  
@1J4G@tr(hURrG@1G@1G@0G@0QJ?G@  
=ptr(hURrG@0G@0G@0^QG@0J@&G@zG{tr(hU  
RrG@0QG@0G@0p  
=qG@0QJ=6G@  
=ptr(hURrG@0QG@0QG@0G@0^QJ6G@\\(tr(hURrG@0@G@0G@0QG@0@J&G@=p  
=tr(hU  
RrG@0^QG@0^QG@0QG@0^QJ^9G@\\(tr(hURrG@0^QG@0G@0@G@0\\(J }G@\\(tr(hURrG@0@G@0G@0G  
@0JiG@zG{tr(hURrG@0^QG@0G@0QG@0@JhEG@=p  
=tr(hURrG@0^QG@0^QG@/\\(G@0QJ@qG@Qtr(hURrG@0G@1G@/\\(G@1@JG@=p  
=tr(hURrG@1G@1G@0^QG@0QJJG@  
=ptr(hURrG@0G@0QG@0@G@0J^G@zG{tr(hURrG@0QG@0QG@0zGG@0J=G@zG{tr(hURrG@0^QG@0Q  
G@0@G@0J:G@\\(tr(hURrG@1G@3@G@1@G@2QJIG@  
=ptr(hURrG@2QG@3^QG@1@G@2@JG@=p  
=tr(hURrG@1QG@1\\(G@1^QG@1JAxG@Qtr(hURrG@1QG@2\\(G@1QG@2J^lyG@tr(hURrG@2G@3QG@2  
@G@2QJ+G@Gztr(hURrG@3QG@3QG@3G@3@J@G@=p  
=tr(hURrG@3G@3QG@3@G@3JjG@Qtr(hURrG@3QG@3QG@2QG@3QJPiG@Qtr(hU  
RrG@3@G@3@G@2QG@3JG@tr(hU  
RrG@3G@3QG@2G@2QJ^?G@Gztr(hURrG@2QG@2QG@2QG@2@J\_+G@=p  
=tr(hURrG@2^QG@2QG@2G@2J W=G@\\(tr(hURrG@3QG@3@G@2QG@2p  
=qJPLJG@p  
=qtr(hURrG@2QG@3G@2^QG@2\\(JR/G@\\(tr(hURrG@2@G@3QG@2QG@3JwG@tr(hURrG@3QG@3QG@  
2^QG@2^QJ-MG@\\(tr(hURrG@2QG@2QG@2G@2J0G@tr(hURr  
G@2QG@2G@1QG@2J3G@zG{tr(hURrG@2^QG@2G@2QG@2QJ^G@Qtr  
(hURrG@2G@2G@1G@1QJ^&)G@Gztr(hURrG@1QG@1QG@1^QG@1J0/G@Qtr(hURrG@1G@1QG@1G@  
1QJ0G@  
=ptr(hURrG@2G@2G@1G@1  
=qJGG@zGtr(hURrG@1G@1@G@0G@1JPiG@tr(hURrG@0QG@1QG@0G@1J^G@tr(hURrG@1G@1QG@0  
G@1J7G@tr(hURrG@1G@1QG@0G@1Jp5G@tr(hURrG@1G@1QG@0G@0QJpD-G@Gztr(hURr  
G@0QG@1G@0^QG@0JP>G@zG{tr!(hURr"G@0QG@1QG@0G@1J7-G@tr#(hU  
Rr\$G@1G@1G@1G@1\\(JfG@



=p  
tr%(hURr&G@1@G@1QG@1G@1\J0ZG@\tr'(hU  
Rr(G@1G@1QG@1G@1\JkG@\tr)(hURr\*G@1QG@2G@1G@1  
=qJIG@zGtr+(hURr,G@1G@2G@1G@1J6G@\tr-(hURr.G@1G@1QG@1@G@1@J02G@=p  
=tr/(hURr0G@1G@1QG@1G@1JpG@tr1(hURr2G@1G@1p  
=qG@0G@1@J|.G@=p  
=tr3(hURr4G@1QG@1QG@0G@0QJ0BG@Gztr5(hURr6G@0G@0QG@0G@0QJ@\*G@  
=ptr7(hURr8G@0QG@1G@0QG@0QJ\$G@Gztr9(hURr:G@0G@1^QG@0G@1@J,G@=p  
=tr;(hURr<G@1^QG@1G@1G@1J/G@tr=(hURr>G@1QG@1QG@0QG@0QJ<G@  
=ptr?(hURr@G@0G@1G@0^QG@0QJ`G@  
=ptrA(hURrBG@1G@1G@0G@0  
=qJG@\trC(hURrDG@0G@0  
=qG@0QG@0  
=qJp#G@zGtrE(hURrFG@0QG@0G@0G@0QJ,G@  
=ptrG(hURrHG@0QG@1QG@0\G@0  
=qJs#G@zGtrI(hURrJG@0QG@0G@0G@0JPG@\trK(hU RrLG@0  
=qG@0  
=qG@0QG@0QJ)G@  
=ptrM(hU  
RrNG@0G@0G@0\G@0@JKG@=p  
=trO(hURrPG@00)\G@0p  
=qG@0@G@00\Jz9G@QRtrQ(hURrRG@0^QG@0^QG@0G@0\J\*G@  
=p  
trS(hU  
RrTG@0\G@0QG@/G@/QJ@JHG@trU(hURrVG@/\G@/\G@.\G@/J AIG@  
=p  
trW(hURrXG@/QG@0G@/G@0W  
=pJMG@\trY(hURrZG@0QG@0@G@/G@/GzJ<G@  
=ptr[(hURrG@0G@0G@/aGzG@/JAG@Qtr](hURr^G@/aGzG@/G@/G@/QJ,<G@Qtr\_(hURr`G@/G@/B\G@.  
\G@.\J6G@tra(hURrbG@.GzG@/QG@.G@.QJ<G@  
=ptrc(hURrdG@.QG@.\G@.G@.B\J0^IG@=p  
=tre(hURrfG@.B\G@.B\G@-B\G@-aGzJP/G@  
\trg(hURrhG@-aGzG@-QG@-B\G@-aGzJVG@  
\tri(hURrjG@-G@-G@,G@,JJG@zG{trk(hURrlG@+GzG@,G@\*B\G@\*aGzJG@  
fffffirm(hURrnG@\*G@\*\G@\*G@\*QJGG@  
(\tro(hURrpG@\*B\G@+\G@\*G@+aGzJ  
fG@\trq(hURrrG@+GzG@,G@+G@+QJhG@trs(hURrtG@+\G@,G@+aGzG@+JM4G@Qtru(hU  
RrvG@+QG@+\G@+B\G@+aGzJMG@\trw(hU  
RrxG@)\G@\*\G@)G@\*JG@  
zG{try(hURrzG@\*\G@/G@\*QG@.aGzJpG@fffftr{(hURrjG@.G@/B\G@-  
\G@/B\JQG@GzHtr}(hURr~G@/G@0G@/B\G@/GzJ\*G@  
=ptr(hURrG@/QG@0G@/B\G@0p  
=qJPWG@p  
=qtr(hURrG@1G@2QG@0p  
=qG@1JG@Qtr(hURrG@1QG@1  
=qG@1\G@1W  
=pJ>G@\tr(hURrG@1\G@1  
=qG@0G@0(\J0G@(\tr(hURrG@0^QG@0

=qG@0O\G@0\JA~G@\tr(hURrG@0G@0QG@0G@0QJpMG@Qtr(hURrG@0QG@0QG@/B\G@/QJHG@tr  
(hURrG@/\G@0\G@/G@0@JvG@=p  
=tr(hURrG@0p  
=qG@0G@0@G@0p  
=qJt<G@p  
=qtr(hURrG@0p  
=qG@0QG@0^QG@0J0'G@zG{tr(hURrG@0  
=qG@1  
=qG@0G@1^QJG@\tr(hURrG@1^QG@1G@1@G@1J G@Qtr(hURrG@1QG@30  
=qG@1\G@30  
=qJ@G@333333tr(hURrG@30  
=qG@3\G@30  
=qG@3J@IMG@\tr(hURrG@3  
=qG@4G@3zG{G@3J'G@\tr(hURrG@9@G@;G@9G@:O\J G@QRtr(hURrG@<G@=\G@<^QG@=0  
=qJpG@333333tr(hURrG@;\G@<^QG@:QG@:\JG@tr(hURrG@:O\G@:p  
=qG@7G@8\JMG@\tr(hURrG@8\G@8@G@5QG@6\J0[G@  
=p  
tr(hU  
RrG@6@G@7QG@4p  
=qG@7QJPG@  
=ptr(hURrG@7QG@8@G@6  
=qG@7JG@tr(hURrG@7QG@7p  
=qG@6\G@7@J@6G@=p  
=tr(hURrG@7O\G@7G@6G@7QJ`vG@  
=ptr(hURrG@7  
=qG@8G@7O\G@8p  
=qJ@G@p  
=qtr(hURrG@8p  
=qG@9QG@80  
=qG@8QJG@  
=ptr(hURrG@8G@8  
=qG@7QG@8JwG@tr(hURrG@7p  
=qG@8G@7^QG@7QJ "|G@  
=ptr(hURrG@7QG@7  
=qG@6  
=qG@7\J'KG@  
=p  
tr(hURrG@6QG@7G@6QG@6@J{G@=p  
=tr(hURrG@6^QG@6G@5QG@6  
=qJgG@zGtr(hURrG@6QG@6G@6G@6J'H4G@tr(hURrG@5\G@6G@5G@5J@<G@\tr(hU  
RrG@6G@6\G@5  
=qG@6^QJleG@\tr(hU RrG@6^QG@7@G@6O\G@6JG@zG{tr(hU  
RrG@6\G@6QG@6@G@6J@BG@zG{tr(hU RrG@6QG@6QG@6G@60  
=qJJG@333333tr(hU RrG@6@G@6@G@5p  
=qG@5JP\_G@Qtr(hU RrG@5O\G@5QG@5@G@5\JpWG@tr(hU  
RrG@5G@7QG@5  
=qG@6  
=qJPG@\tr(hU RrG@6QG@7G@6\G@6^QJrG@\tr(hU RrG@60

=qG@6@G@5p  
=qG@6\J>G@  
=p  
tr(hU RrG@5QG@6QG@5G@5J04G@Qtr(hU RrG@6\G@6#  
=pG@5G@5  
=qJpnIG@\tr(hU RrG@6G@6G@5  
=qG@5\JPq/G@tr(hU RrG@5G@6G@5G@6O)\J 3\G@QRtr(hU RrG@60  
=qG@60  
=qG@5G@5  
=qJ3G@\tr(hU RrG@6QG@7\G@6G@6\JmG@tr(hU RrG@6@G@6@G@5  
=qG@5J@MmG@\tr(hU RrG@5  
=qG@5G@5^QG@5JlyG@Qtr(hU RrG@5O\G@5G@5G@5QJ yG@Qtr(hU RrG@5G@5  
=qG@5QG@5O\JqG@QRtr(hU RrG@5  
=qG@6@G@5\G@6\J?[G@  
=p  
tr(hU RrG@6G@6O\G@5  
=qG@5  
=qJ@LG@zGtr(hU  
RrG@5  
=qG@5G@5^QG@5zHJPEGG@Qtr(hU  
RrG@5p  
=qG@6G@5^QG@5  
=qJPJG@\tr(hU  
RrG@6G@6@G@5  
=qG@6QJXG@Qtr(hU  
RrG@60  
=qG@6@G@5  
=qG@5  
=qJ02G@\tr(hU  
RrG@5QG@6G@5\G@5\Jp;G@tr(hU  
RrG@5G@5\G@5O\G@5J;G@Qtr(hU  
RrG@5@G@6G@50  
=qG@5J-fG@\tr(hU  
  
RrG@5G@6G@5G@6  
=qJG@zGtr(hU  
  
RrG@6G@6QG@60  
=qG@6  
=qJ^VG@zGtr(hU  
RrG@6  
=qG@6G@60  
=qG@6  
=qJaZG@zGtr(hU  
RrG@6QG@8G@6QG@7\J:G@tr(hU  
RrG@5QG@6\G@4QG@5J\*G@Qtr(hU  
RrG@5QG@5QG@3QG@4QJIG@Qtr(hU  
RrG@4QG@40

=qG@2QG@2  
=qJ0G@zGtr(hU  
RrG@2QG@3O\G@2  
=qG@3\JG@  
=p  
tr (hU  
Rr  
G@3\G@3@G@2G@2\JRG@\tr(hU  
RrG@2G@20  
=qG@1G@1J  
fG@\tr  
(hU  
RrG@2QG@2^QG@0G@0\JG@\tr(hU  
RrG@0G@2QG@0G@0JG@\tr(hU  
RrG@0G@2G@\G@2QJ0FG@Qtr(hU  
RrG@2p  
=qG@2G@1@G@1J^G@Qtr(hU  
RrG@1\G@1\G@0G@0Jp7gG@zG{tr(hU  
RrG@1^QG@1^QG@0QG@1zHJG@  
=p  
tr(hURrG@1\G@1G@1\G@1^QJDG@\tr(hURrG@1G@2QG@1G@1  
=qJ0\G@\tr(hURrG@2@G@2QG@2\G@2^QJ.G@\tr(hURr  
G@2QG@3G@2QG@3JPG@tr!(hURr"G@2QG@4G@2G@3J G@\tr#(hU  
Rr\$G@5G@5G@2G@2  
=qJ G@zGtr%(hURr&G@3G@3G@2QG@2^QJ^G@\tr'(hURr(G@2\G@2G@1\G@1QJqG@  
=ptr)(hU  
Rr\*G@2G@2\G@1G@2JG@tr+(hURr,G@2@G@2G@2G@2p  
=qJIG@p  
=qtr-(hURr.G@2QG@2  
=qG@2TzGG@2JoG@zG{tr/(hURr0G@2G@2G@2\G@2\J;PG@  
=p  
tr1(hURr2G@1QG@2O\G@1QG@2@Jc+G@=p  
=tr3(hURr4G@20  
=qG@2QG@2QG@2JPF@zG{tr5(hURr6G@2QG@2  
=qG@2G@20  
=qJ0c5G@333333tr7(hURr8G@1\G@2G@1G@1QJPUG@  
=ptr9(hURr:G@1  
=qG@1QG@0QG@1^QJpG@\tr;(hURr<G@1^QG@1  
=qG@1@G@1J>!G@Qtr=(hURr>G@1QG@1QG@1p  
=qG@1J0G@\tr?(hURr@G@1  
=qG@1  
=qG@1@G@1Jp/G@\trA(hURrBG@1^QG@1G@1\G@1\JYG@\trC(hURrDG@0\G@0QG@/aGzG@/J  
G@QtrE(hURrFG@0G@0G@/B\G@/B\JpIG@GzHtrG(hURrHG@/QG@0G@/QG@/QJxG@trI(hURrJG@/QG  
@/G@.\G@/QJ^HG@QtrK(hU RrLG@/G@/aGzG@.G@.J^uG@zG{trM(hU  
RrNG@.QG@.QG@-G@-J3jG@  
QtrO(hURrPG@,GzG@-QG@+\G@-QJ@)G@  
QtrQ(hURrRG@-G@-\G@,G@,B\J@WG@=p  
=trS(hURrTG@,B\G@,G@+G@+GzJrZG@

=ptrU(hURrVG@,G@,\(G@,G@,QJjeG@  
=ptrW(hURrXG@,QG@-QG@+GzG@+GzJG@  
=ptrY(hURrZG@,G@,G@+G@+QJp?nG@tr[(hURr\G@+QG@+\(G@\*G@+aGzJ`gG@(\tr](hURr^G@+\(G@,G  
@\*aGzG@\*QJ  
WG@

=ptr\_(hURr`G@\*B\((G@\*QG@)GzG@)GzJPG@  
=ptrahURrbG@\*G@\*G@\*G@\*B\Jo5G@  
=p  
=trc(hURrdG@\*QG@\*\((G@\*G@\*QJ :G@

=ptre(hURrfG@\*QG@\*GzG@)\(G@\*B\JPG@  
=p  
=trg(hURrhG@\*G@\*GzG@)G@\*aGzJG@  
ffffftri(hURrjG@\*B\((G@+B\((G@)GzG@\*B\JG@  
=p  
=trk(hURrlG@+B\((G@0@G@+G@0@JpfG@=p  
=trm(hURrnG@0G@0\((G@.aGzG@^\(JPacG@^\(tro(hURrpG@/GzG@4G@-G@2  
=qJ@G@^\(trq(hURrrG@2\((G@3G@1O\((G@1J07G@Qtrs(hURrtG@1p  
=qG@2QG@0  
=qG@20  
=qJG@333333tru(hU RrvG@2QG@3^QG@1G@20  
=qJ@SG@333333trw(hURrxG@1p  
=qG@2QG@1QG@2@JppG@=p  
=try(hU  
RrzG@2QG@3QG@2G@3JE[G@Qtr{(hURrjG@3QG@3  
=qG@3@G@3J\*AG@^\(tr](hURr~G@30  
=qG@3G@2QG@30  
=qJ0G@333333tr(hURrG@3p  
=qG@3p  
=qG@2  
=qG@2\J G@tr(hURrG@3\((G@3O\((G@2QG@3\J`G@  
=p  
tr(hURrG@2G@3\((G@2\((G@2)J`gG@Qtr(hURrG@2  
=qG@3G@2QG@3@JG@=p  
=tr(hURrG@3^QG@3  
=qG@3@G@3JG@Qtr(hURrG@3p  
=qG@3\((G@2\((G@3p  
=qJPPG@p  
=qtr(hURrG@30  
=qG@3  
=qG@3G@3QJ<=G@Qtr(hURrG@30  
=qG@3^QG@2QG@30  
=qJRG@333333tr(hURrG@2  
=qG@3QG@2G@2JsG@zG{tr(hURrG@2O\((G@2QG@2@G@2O\JXG@QRtr(hURrG@2G@2G@1^QG@1  
=qJ.[G@zGtr(hURrG@1  
=qG@2QG@1  
=qG@2O\JG@QRtr(hURrG@2\((G@2G@2G@2@J ]G@=p

=tr(hURrG@2@G@2G@2G@2O)(J@G@QRtr(hURrG@2^QG@2  
=qG@2@G@2J}nG@zG{tr(hU RrG@2^QG@3G@2^QG@30  
=qJP  
G@333333tr(hU  
RrG@3QG@3(G@3(G@3p  
=qJPAG@p  
=qtr(hURrG@3G@3G@2QG@3J0sG@tr(hURrG@3QG@3p  
=qG@3(G@3^QJ@ZoG@(\tr(hU  
RrG@30  
=qG@3QG@3G@3JqG@Qtr(hURrG@3G@3G@3G@3QJcG@  
=ptr(hURrG@3(G@4G@3(G@4(J  
G@(\tr(hURrG@4QG@4  
=qG@4G@4p  
=qJG@p  
=qtr(hURrG@4G@4(G@3(G@4JG@tr(hURrG@4QG@5QG@4G@5@JSG@=p  
=tr(hURrG@5O(G@5^QG@4G@5O(J  
G@QRtr(hURrG@5O(G@6G@4  
=qG@6O(JzG@QRtr(hURrG@6O(G@7(G@5QG@7J'sDG@Qtr(hURrG@7O(G@7QG@6(G@7QJPzG@  
=ptr(hURrG@7(G@7(G@6G@6JhG@(\tr(hURrG@5QG@70  
=qG@5QG@7QJ@'G@Qtr(hURrG@6QG@8G@6QG@8p  
=qJG@p  
=qtr(hURrG@7@G@8@G@7QG@8(J.pG@  
=p  
tr(hURrG@7QG@8G@7^QG@8p  
=qJ6kG@p  
=qtr(hU RrG@7G@8O(G@6G@6Jm9G@(\tr(hU  
RrG@7G@8G@6  
=qG@8(JG@  
=p  
tr(hURrG@9QG@:0  
=qG@8(G@:QJ@G@Qtr(hURrG@:QG@;G@9(G@;JpG@tr(hU  
RrG@;@G@;@G@:~G@;QJ 4G@Qtr(hURrG@;QG@;@G@:0  
=qG@:  
=qJZG@zGtr(hURrG@:G@:  
=qG@9QG@:W  
=pJG@(\tr(hURrG@:G@:  
=qG@:G@:  
=qJG@(\tr(hURrG@:QG@:  
=qG@:(G@:J'WG@(\tr(hURrG@:  
=qG@:QG@:G@:^QJPuG@(\tr(hURrG@9  
=qG@:@G@8QG@:QJG@Qtr(hURrG@:^QG@<G@:@G@<JpG@tr(hURrG@;QG@;G@:^QG@;(\)JfG@(\)tr(h  
URrG@:G@;G@:p  
=qG@:(J'nG@(\tr(hURrG@:QG@;O)(G@:^QG@:  
=qJ'G@(\tr(hURrG@:G@;G@:G@:;p  
=qJpG@p  
=qtr(hURrG@;p  
=qG@:(G@;@G@;JG@Qtr(hURrG@;p  
=qG@;(G@;(G@;J'fG@Qtr(hURrG@;O)(G@;p

=qG@:  
=qG@;O\JjG@QRtr(hURrG@;QG@;@G@:(G@;(J@nG@  
=p  
tr(hURrG@;G@;G@:0  
=qG@:@JpG@=p  
=tr(hURrG@9\G@:G@8QG@9JG@Qtr(hURrG@9@G@9^QG@8  
=qG@9JpzG@tr(hU RrG@9\G@9QG@9G@9QJG@  
=ptr(hU  
RrG@9QG@:  
=qG@9G@:p  
=qJ@ @G@p  
=qtr(hURrG@:^QG@;@G@:^QG@:  
=qJG@\tr(hURrG@;0  
=qG@;G@:QG@;p  
=qJ0G@p  
=qtr(hURrG@=@G@=QG@<0  
=qG@<QJG@  
=ptr(hURrG@<\G@<QG@;  
=qG@;  
=qJBG@\tr(hURrG@;QG@=G@;(\G@=JDG@tr(hURrG@=(G@=QG@<G@=JG@tr(hURrG@<G@=G@;G@;  
JnG@Qtr(hURrG@:p  
=qG@=G@;0  
=qG@;  
=qJ\$G@zGtr(hURrG@;G@<@G@;G@;  
=qJ`uG@\tr(hURrG@:G@;G@:G@;JpG@\tr(hURr  
G@;QG@<G@:@G@:  
=qJG@\tr(hURrG@:  
=qG@;p  
=qG@:G@;J^gG@tr  
(hURrG@;^QG@;QG@;(\G@;^QJLbG@\tr(hURrG@;G@<@G@:QG@<JndG@tr(hURrG@<QG@=G@<QG  
@=(J7G@  
=p  
tr(hURrG@=@G@=QG@=QG@=  
=qJG@zGtr(hURrG@=QG@>p  
=qG@=@G@>O\JP\$G@QRtr(hURrG@>(\G@>QG@=QG@>0  
=qJ0-G@333333tr(hURrG@>(\G@>G@=  
=qG@>p  
=qJG@p  
=qtr(hURrG@>QG@?QG@>G@>  
=qJjG@\tr(hURrG@>(\G@>G@=  
=qG@>QJ`G@Qtr(hU  
Rr G@>(\G@>(\G@=QG@>p  
=qJ G@p  
=qtr!(hURr"G@>^QG@>p  
=qG@=G@>(\J0XG@  
=p  
tr#(hURr\$G@>(\G@>^QG@=@G@=(JG@\tr%(hURr&G@=^QG@=(G@<^QG@<J~G@zG{tr'(hURr(G@<  
=qG@=p

=qG@<(G@=^QJ @wG@(\tr)(hURr\*G@=QG@=QG@<G@=(JgG@(\tr+(hURr,G@=(G@=  
=qG@<QG@<QJ^GG@Gztr-(hURr.G@<G@<G@;O(G@;QJPKG@Gztr/(hURr0G@<(G@<@G@:QG@:  
=qJ G@zGtr1(hURr2G@9  
=qG@:(G@9QG@:J0G@(\tr3(hURr4G@:G@;QG@:G@;p  
=qJG@p  
=qtr5(hURr6G@;G@;(G@:p  
=qG@:QJ FvG@  
=ptr7(hURr8G@:G@;QG@9QG@:@J\_G@=p  
=tr9(hURr:G@:p  
=qG@;O(G@:G@:QJaG@Gztr;(hURr<G@;QG@;@G@:0  
=qG@:O(JLOG@QRtr=(hURr>G@:QG@:QG@9(G@:(J:UG@tr?(hURr@G@:QG@;@G@:^QG@:QJ>CG@G  
ztrA(hURrBG@;G@;  
=qG@:(G@;@JPEG@=p  
=trC(hU RrDG@;^QG@<G@;^QG@<@JUG@=p  
=trE(hU  
RrFG@<G@=G@;QG@<(J')G@  
=p  
trG(hURrHG@<0  
=qG@<QG@:(G@;(JpbG@trI(hURrJG@;QG@<@G@;^QG@<QJ@JzG@QtrK(hURrLG@;@G@<@G@;@G  
@;J0{JG@QtrM(hURrNG@;  
=qG@<QG@;O(G@<JFG@trO(hURrPG@<G@<(G@;  
=qG@<QJpfG@QtrQ(hURrRG@;G@<(G@;0  
=qG@;O(J qAG@QRtrS(hURrTG@;^QG@;p  
=qG@:G@;(J>KG@  
=p  
trU(hURrVG@;G@;(G@:G@;^QJaIG@(\trW(hURrXG@;p  
=qG@<QG@;@G@;(J~G@trY(hURrZG@;G@<QG@;O(G@<@J)G@=p  
=tr[(hURr^G@<(G@<(G@<O(G@<(JhG@(\tr)(hURr^G@<G@<QG@;G@<0  
=qJP<G@33333tr\_(hURr`G@<@G@<(G@<(G@<  
=qJ0ZG@zGtra(hURrbG@<QG@<(G@<QG@<  
=qJmGG@zGtrc(hURrdG@<QG@>G@<G@=  
=qJVG@(\tre(hURrfG@=  
=qG@>(G@=G@=JG@trg(hURrhG@=G@>^QG@=QG@>^QJ@G@(\tri(hURrjG@>^QG@>QG@>G@>JG@  
zG{trk(hURrlG@>G@>@xQG@>  
=qG@>@GzHJG@ GzHtrm(hU RrnG@>@xQG@>  
=qG@?p  
=qG@?  
=qJ5G@zGtro(hU  
RrpG@>@QG@>@P  
=qG@?G@>@zHJG@  
=p  
trq(hU  
RrrG@?  
=qG@A  
=qG@?QG@>@QJG@ \tr(s(hURrtG@>@QG@AG@>  
=qG@>@QJ00+G@> Qtru(hURrvG@>@QG@AXQG@>@G@A8QJMDG@!8Qtrw(hURrxG@>B  
=qG@C  
=qG@AG@BJ\$G@>\"(try(hURrzG@>BG@BG@BQG@Bp



=qJWG@"p  
=qtr{(hURr|G@BGzHG@BP  
=qG@AG@B JpwG@"Qtr}(hURr~G@B  
=qG@BG@AzHG@A  
=qJG@!Rtr(hURrG@AxQG@A  
=qG@A G@AJ5G@!tr(hURrG@AgzHG@A  
=qG@A`G@AxQJG@!u\tr(hURrG@A  
=qG@AG@@zHG@AXQJG@!W  
=ptr(hURrG@A G@Ap  
=qG@@G@A8QJtG@!8Qtr(hURrG@AzHG@AP  
=qG@@G@@  
=qJzG@ Rtr(hURrG@@G@A  
=qG@@QG@A  
=qJ>G@!\tr(hURrG@AzHG@B`G@AG@B@JG@="=p  
=tr(hURrG@BP  
=qG@B`G@A@G@AP  
=qJcG@!QRtr(hURrG@A G@AzHG@@G@A  
=qJG@!\tr(hURrG@AG@BG@AG@AQJ0RG@!tr(hURrG@@G@BG@@G@BJG@"tr(hURrG@AzHG@Bp  
=qG@Ap  
=qG@Bp  
=qJP=G@"p  
=qtr(hURrG@BQG@B  
=qG@BG@B@J`pG@"=p  
=tr(hU  
RrG@B'zHG@CzHG@B G@BQJY  
G@"\tr(hURrG@BG@DG@B  
=qG@CJ\*G@#tr(hURrG@CG@DxQG@Cp  
=G@DzHJ@2xG@\$  
=p  
tr(hU  
RrG@CQG@D`G@C  
=qG@CQJDG@#Qtr(hURrG@DXQG@D`G@CG@D@JG@\$=p  
=tr(hURrG@DG@EgzHG@C  
=qG@DQJ VG@\$)\tr(hURrG@E8QG@E  
=qG@E G@EGzHJ;JG@%GzHtr(hURrG@EG@EG@DG@DJ@) G@\$tr(hURrG@DG@D  
=qG@D G@DP  
=qJG@\$QRtr(hURrG@DG@EzHG@CG@EJUG@%tr(hURrG@EQG@EG@D  
=qG@DQJPLG@\$tr(hURrG@E0  
=qG@E0  
=qG@D'zHG@DgzHJ8G@\$fffffr(hURrG@C  
=qG@D  
=qG@CG@D0  
=qJG@\$33333tr(hURrG@CG@CG@A  
=qG@BJ\_G@"\tr(hURrG@B  
=qG@C@G@A  
=qG@AQJ\*G@!tr(hURrG@A`G@Ap  
=qG@?G@?0  
=qJ06G@33333tr(hU RrG@?^QG@A

=qG@>QG@A  
=qJ G@!\(tr(hU RrG@AG@B  
=qG@AG@AzHJG@!zHtr(hU RrG@AG@A  
=qG@AG@AP  
=qJG@!QRtr(hU RrG@AG@B8QG@@G@A  
=qJG@!\(tr(hU RrG@CG@C G@B`G@C JG@#Qtr(hU RrG@CzHG@C  
=qG@BG@B  
=qJG@"33333tr(hU  
RrG@B G@C G@AG@C  
=qJ0FG@#\(\tr(hU RrG@C@G@C  
=qG@Bp  
=qG@B  
=qJ)G@"Rtr(hU RrG@C G@CgzHG@B  
=qG@BQJG@"tr(hU RrG@B`G@CGzHG@B@G@CQJcG@#tr(hU RrG@CP  
=qG@C`G@BG@BzHJ G@"\tr(hU RrG@BzHG@B  
=qG@A  
=qG@BJG@"tr(hU RrG@BzHG@B`G@AzHG@B`JPcG@"aGztr(hU  
RrG@AQG@BxQG@AzHG@BxQJ0LG@"u\(\tr(hU RrG@B  
=qG@B  
=qG@B0  
=qG@BJG@"tr(hU RrG@BG@C0  
=qG@BGzHG@C'zHJpG@#\(\tr(hU RrG@B  
=qG@CzHG@BG@C@JP\*G@#=#p  
=tr(hU RrG@CQG@CQG@B  
=qG@C`J)G@#aGztr(hU RrG@CG@DQG@CG@CzHJPEG@#=#p  
tr(hU RrG@CzHG@DG@C  
=qG@CJoG@#\(\tr(hU RrG@C`G@CG@CG@C  
=qJ2[G@#\(\tr(hU  
RrG@B`G@CG@A  
=qG@AQJG@!  
=ptr(hU  
RrG@AG@B G@A  
=qG@AzHJaG@!=p  
tr(hU  
RrG@AG@AGzHG@?G@@QJ-G@ tr(hU  
RrG@@@QG@A'zHG@@@G@@@GzHJG@ GzHtr(hU  
RrG@@@0  
=qG@@@zHG@?QG@?  
=qJ-G@\(\tr(hU  
RrG@?G@?0  
=qG@<G@>\(J`wG@tr(hU  
RrG@?G@AG@>G@A  
=qJ@alG@!\(\tr(hU  
RrG@BG@C8QG@BGzHG@BQJSG@"Qtr(hU  
  
RrG@CzHG@CQG@BG@C`J@gG@#aGztr(hU  
RrG@CG@DzHG@BgzHG@B  
=qJG@"33333tr(hU

RrG@B G@BG@AG@BP  
=qJ`VG@"QRtr(hU  
RrG@B  
=qG@CzHG@B@G@BXQJOG@"W  
=ptr(hU  
RrG@BXQG@CzHG@A  
=qG@BJPG@"\tr(hU  
RrG@BQG@CQG@BG@BzHJ0EG@"  
=p  
tr(hU  
RrG@B`G@BQG@AG@B  
=qJ0G@"\tr(hU  
RrG@Bp  
=qG@B  
=qG@B G@B`J`G@"aGztr(hU  
RrG@B`G@Bp  
=qG@A  
=qG@AJGG@!\tr(hU  
RrG@BzHG@BG@AG@BQJ`G@"Qtr(hU  
RrG@CG@CxQG@AzHG@AJy%G@!Qtr (hU  
Rr  
G@AG@BG@A  
=qG@BgzHJ@vG@"fffftr(hU  
RrG@B8QG@BQG@AzHG@B8QJG@"8Qtr  
(hU  
RrG@BgzHG@BG@B G@B  
=qJ0OG@"\tr(hURrG@BG@BG@BG@B  
=qJ~G@"Rtr(hURrG@B  
=qG@C G@BzHG@BzHJp\$G@"fffftr(hURrG@CGzHG@C  
=qG@C  
=qG@CXQJp`VG@#W  
=ptr(hURrG@C0  
=qG@C  
=qG@CzHG@CQJJG@#tr(hURrG@B  
=qG@C G@BG@CzHJG@#  
=p  
tr(hU RrG@BQG@C  
=qG@AG@BP  
=qJpqhG@"QRtr(hU  
RrG@BQG@B G@AG@A  
=qJG@!\tr(hURrG@AG@AzHG@@`G@@zHJ 3G@ zHtr(hURr G@@  
=qG@A8QG@@p  
=qG@AJkDG@!tr!(hU  
Rr"G@AxQG@BzHG@AXQG@AQJG@!  
=ptr#(hURr\$G@AQG@B`G@AQG@BJG@"tr%(hURr&G@AG@AzHG@A`G@AgzHJrG@!fffftr'(hURr(G@  
AQG@BG@Ap  
=qG@AQJPG@!Qtr)(hURr\*G@AG@BQG@AQG@AJG@!Gztr+(hURr,G@B8QG@B`G@A`G@AzHJ`G@!)tr  
-(hURr.G@AzHG@BgzHG@AQG@B J:G@"Qtr/(hURr0G@B

=qG@B`G@AG@AQJkG@!\(tr1(hURr2G@A  
=qG@BzHG@AxQG@A  
=qJG@!\(tr3(hURr4G@AzHG@A  
=qG@A`G@AzHJPSG@!=p  
tr5(hURr6G@AGzHG@AgzHG@?G@?  
=qJ2G@!\(tr7(hURr8G@@G@AgzHG@?QG@A  
=qJ G@!\(tr9(hURr:G@A  
=qG@Bp  
=qG@@G@BJ@G@"tr;(hURr<G@B'zHG@B@G@@@  
=qG@@@QJUG@  
=ptr=(hURr>G@A'zHG@A8QG@@G@@`JP%G@ aGztr?(hURr@G@@@  
=qG@@G@@`G@@@Jp5G@ GztrA(hURrBG@@QG@@QG@@G@@@zHJ rG@  
=p  
trC(hU RrDG@@XQG@@@p  
=qG@?QG@@@J?CG@ trE(hU  
RrFG@@XQG@@@xQG@?QG@@@JTG@ trG(hURrHG@@ G@AG@@G@@@J0xG@ GztrI(hURrJG@@@p  
=qG@@@zHG@@ G@@@JPG@ =p  
=trK(hURrLG@@`G@@@  
=qG@@`G@@@zHJ`G@ zHtrM(hURrNG@@G@AQG@@@P  
=qG@@@gzHJG@ ffffftrO(hURrPG@@@xQG@@@G@@`G@@@QJ<G@ QtrQ(hURrRG@@@  
=qG@A  
=qG@@@G@AQJ@G@!trS(hURrTG@A  
=qG@A  
=qG@A G@AzHJG@!=p  
trU(hURrVG@B0  
=qG@C  
=qG@BG@CJNsG@#trW(hURrXG@CP  
=qG@D@G@C0  
=qG@CzHJHG@#fffftrY(hURrZG@C  
=qG@DG@CQG@CJ.mG@#Qtr[(hURr\G@CG@D  
=qG@CG@Dp  
=qJxG@\$p  
=qtr](hURr^G@D  
=qG@DG@D G@DgzHJbG@\$fffftr\_(hURr`G@D  
=qG@D  
=qG@DG@DzHJPG@\$  
=p  
tra(hURrbG@D@G@D  
=qG@CG@DxQJBG@\$u\((trc(hURrdG@E  
=qG@E G@DG@DJG@\$Qtre(hURrfG@DQG@EQG@DG@EzHJvG@%)\)trg(hURrhG@F  
=qG@F  
=qG@DG@DJPG@\$Gztri(hURrjG@E G@FzHG@E  
=qG@FJG@&trk(hURrlG@GGzHG@Gp  
=qG@FG@FJqG@&trm(hURrnG@FG@GzHG@Fp  
=qG@F  
=qJ2G@&  
=qtro(hURrpG@G'zHG@GP  
=qG@F

=qG@G  
=qJPG@`(trq(hU  
RrrG@Ep  
=qG@GzHG@E G@G@J 4;G@'=p  
=trs(hURrtG@FG@GG@DzHG@D  
=qJ{G@\$33333tru(hURrvG@DzHG@E  
=qG@DG@DzHJM\$G@\$)trw(hURrxG@DQG@E'zHG@D0  
=qG@Dp  
=qJp#G@\$p  
=qtry(hURrzG@DzHG@EG@D@G@DGzHJPLG@\$GzHtr{(hURr|G@D8QG@DGzHG@BG@CgzHJIGG@###  
ffitr}(hURr~G@BQG@CG@BzHG@C`JG@#aGztr(hURrG@CG@CzHG@CgzHG@C  
=qJG@#33333tr(hURrG@CQG@Dp  
=qG@C  
=qG@D@J`61G@\$=p  
=tr(hURrG@DG@D  
=qG@CQG@D  
=qJ-G@\$)(tr(hURrG@Dp  
=qG@DG@D'zHG@Dp  
=qJWG@\$p  
=qtr(hURrG@DQG@DzHG@DG@DQJpG@\$tr(hURrG@DQG@DQG@D'zHG@DxQJG@\$u)(tr(hURrG@D0  
=qG@D`G@CG@CQJpyG@#tr(hURrG@CG@DGzHG@C`G@DQJG@\$tr(hURrG@DQG@D G@BG@B  
=qJ`G@"  
=qtr(hURrG@C G@C0  
=qG@AG@B'zHJG@#(\)tr(hURrG@BXQG@BQG@B G@BJ.G@"Gztr(hU  
RrG@BQG@CzHG@BzHG@BQJP~G@"tr(hU  
RrG@Bp  
=qG@CXQG@BG@C'zHJ =3G@#(\)tr(hURrG@C`G@CG@CGzHG@C  
=qJ@:4G@#Rtr(hURrG@C  
=qG@C  
=qG@BG@BQJG@"  
=ptr(hURrG@Cp  
=qG@Cp  
=qG@B  
=qG@C'zHJG@#(\)tr(hURrG@C  
=qG@CXQG@BxQG@BJtG@"tr(hURrG@BzHG@B  
=qG@AzHG@BJG@"tr(hURrG@B G@BQG@BQG@BQJ0nG@"tr(hURrG@B  
=qG@Cp  
=qG@BG@C8QJG@#8Qtr(hURrG@CGzHG@CzHG@BQG@C8QJG@#8Qtr(hURrG@CgzHG@CG@B  
=qG@BQJEtG@"Qtr(hURrG@BzHG@BQG@B@G@BxQJGG@"u)(tr(hURrG@B@G@BG@A@G@AgzHJkG  
@!ffffftr(hURrG@AgzHG@AgzHG@@  
=qG@@J@  
  
G@ Gztr(hURrG@A  
=qG@AzHG@@G@AP  
=qJtG@!QRtr(hURrG@A`G@A  
=qG@@G@AQJ@.G@!tr(hURrG@A@G@A@G@@0  
=qG@@QJvG@ Qtr(hURrG@A'zHG@A'zHG@@0  
=qG@@QJp]G@ tr(hURrG@@G@AXQG@@QG@A0

=qJR,G@!33333tr(hU RrG@A'zHG@A0  
=qG@@G@A  
=qJ\_G@!(tr(hU  
RrG@AQG@AQG@@8QG@@GzHJ)G@ GzHtr(hURrG@@ G@@  
=qG@@G@@QJ`oG@ tr(hURrG@@zHG@@G@@zHG@@QJG@  
tr(hURrG@@zHG@AG@@G@AzHJ0G@!  
=p  
tr(hURrG@AG@AzHG@AxQG@AJ0;G@!(tr(hURrG@AQG@BzHG@@QG@AzHJG@!  
=p  
tr(hURrG@A0  
=qG@A  
=qG@A G@AJP|G@!(tr(hURrG@AQG@BG@@@p  
=qG@@@Jp`\$G@ \tr(hURrG@AG@AQG@@xQG@AzHJCG@!=p  
tr(hURrG@A8QG@A8QG@@`G@@@JxG@ tr(hURrG@@G@@G@@@G@@@QJ\*G@  
=ptr(hURrG@A0  
=qG@Ap  
=qG@@  
=qG@@zHJG@ ffffftr(hURrG@@G@@zHG@@G@@JG@ Qtr(hURrG@@G@AQG@@QG@A  
=qJS6G@!33333tr(hURrG@AG@B0  
=qG@AG@A  
=qJP:.G@!  
=qtr(hURrG@B0  
=qG@B  
=qG@A  
=qG@AQJ@3G@!(tr(hURrG@BzHG@BXQG@AG@BzHJP%G@"  
=p  
tr(hURrG@BG@B  
=qG@BG@BzHJ aG@"=p  
tr(hURrG@BgzHG@C'zHG@BgzHG@CJVG@#tr(hURrG@CzHG@C G@B0  
=qG@B  
=qJG@"tr(hURrG@Bp  
=qG@BzHG@BG@Bp  
=qJ`G@"p  
=qtr(hU RrG@B G@BG@AQG@B`J@G@"aGztr(hURrG@AG@Bp  
=qG@Ap  
=qG@B J@G@"Qtr(hU  
RrG@B'zHG@BgzHG@A@G@AP  
=qJpG@!QRtr(hURrG@AG@BzHG@AG@A  
=pJ&sG@!(tr(hURrG@A  
=qG@BQG@A'zHG@AJ@oG@!Gztr(hURrG@A  
=qG@BzHG@AG@AQJG@!Qtr(hURrG@AQG@BG@@G@@@  
=qJ@^G@  
=qtr(hURrG@@@  
=qG@A`G@@G@AzHJG@!  
=p  
tr(hURrG@AG@A0  
=qG@@G@A0  
=qJG@!33333tr(hURrG@AzHG@BP

=qG@AzHG@B0  
=qJG@"333333tr(hURrG@B G@CQG@B G@CQJ  
:G@#tr(hURrG@CG@DG@CG@DxQJG@\$u)(tr(hURrG@EG@FzHG@EG@FJp{G@&Gztr(hURrG@FP  
=qG@FQG@E  
=qG@FzHJG@&  
=p  
tr(hURrG@EG@F0  
=qG@D  
=pG@EJ@eG@%tr(hURrG@FG@G  
=qG@FG@GJ"G@'tr(hURrG@GzHG@IG@FG@HzHJ0!G@(zHtr (hURr  
G@H G@HP  
=qG@GQG@G@J 3G@'=p  
=tr(hURrG@G'zHG@GG@FP  
=qG@GJ;G@'tr  
(hURrG@GGzHG@Gp  
=qG@FG@F@JMG@&=p  
=tr(hURrG@FP  
=qG@F  
=qG@E`G@F  
=qJ`G@&  
=qtr(hU  
RrG@G`G@GxQG@FP  
=qG@FJxG@&Qtr(hURrG@Fp  
=qG@GQG@EzHG@F`JG@&aGztr(hURrG@Fp  
=qG@G@G@F  
=qG@G@J0G@'=p  
=tr(hU  
RrG@G8QG@GgzHG@FG@GQJ WG@'tr(hURrG@F  
=qG@FzHG@F0  
=qG@F0  
=qJp{G@&333333tr(hURrG@EG@FXQG@EG@F0  
=qJrG@&333333tr(hURrG@FgzHG@GG@F0  
=qG@FJ/G@&Qtr(hURr G@FG@FG@EG@FQJG@&tr!(hURr"G@FQG@FG@E@G@E@J`G@%=  
=tr#(hURr\$G@EG@F'zHG@EGzHG@EQJG@%(\tr%(hURr&G@E  
=qG@F'zHG@D  
=qG@DQJG@\$(\tr'(hURr(G@DzHG@E8QG@DxQG@DJ G@\$(\tr)(hURr\*G@DG@F0  
=qG@DG@FzHJG@&  
=p  
tr+(hURr,G@EQG@EG@EXQG@EJG@%(\tr-(hURr.G@EzHG@F'zHG@E  
=qG@FzHJmG@&  
=p  
tr/(hURr0G@FG@FzHG@F0  
=qG@FgzHJsG@&fffffftr1(hURr2G@F@G@GQG@FG@GGzHJG@'GzHtr3(hURr4G@Gp  
=qG@HG@GgzHG@GQJ0G  
G@'Qtr5(hURr6G@G  
=qG@HQG@GG@H  
=qJG@(\tr7(hURr8G@H  
=qG@HG@GG@HxQJPG@(\tr9(hURr:G@H`G@HgZHG@GzHG@GQJG@'

=ptr;(hU Rr<G@GQG@H@G@GQG@H8QJ`G@(8Qtr=(hU  
Rr>G@G  
=qG@H G@GzHG@H  
=qJG@(\(tr?(hURr@G@H  
=qG@H@G@G G@G8QJ`dG@'8QtrA(hURrBG@G@G@GP  
=qG@F  
=qG@FQJUG@&QtrC(hURrDG@FQG@G`G@F  
=qG@GzHJ 4GG@'  
=p  
trE(hURrFG@G0  
=qG@HzHG@G0  
=qG@GQJzG@\'(trG(hURrHG@G  
=qG@HG@FG@G0  
=qJizG@'33333trI(hURrJG@F  
=qG@GG@FQG@G  
=qJqG@\'(trK(hURrLG@GG@GG@GG@G@JIG@'`=p  
=trM(hURrNG@G'zHG@GxQG@F  
=qG@F  
=qJRG@&33333trO(hURrPG@FzHG@FQG@EzHG@EQJ!G@%  
=ptrQ(hURrRG@E  
=qG@E  
=qG@E G@E'zHJ{G@%(\)trS(hURrTG@E@G@EXQG@EzHG@EQJG@%trU(hURrVG@E8QG@ExQG@E0  
=qG@EGzHJpG@%GzHtrW(hURrXG@E\(\G@FzHG@EP  
=qG@F  
=qJG@&33333trY(hURrZG@FQG@GxQG@FxQG@G'zHJ<G@\'(\)tr[(hURr\G@G'zHG@GGzHG@FG@FzHJe  
QG@&(\)tr](hURr^G@F  
=pG@Gp  
=qG@FQG@G'zHJ0CG@\'(\)tr\_(hURr`G@FQG@G  
=qG@FzHG@G  
=qJ`G@'33333tra(hURrbG@G  
=qG@I`G@GG@H  
=qJ WG@(  
=qtrc(hURrdG@I  
=qG@KzHG@Ip  
=qG@K@JuG@+=p  
=tre(hU RrfG@K@G@K  
=qG@JG@K  
=qJKG@+Rtrg(hURrhG@KG@K  
=qG@KQG@K@JG@+=p  
=tri(hU  
RrjG@JG@KQG@Jp  
=qG@JQJG@\*  
=ptrk(hURrlG@K@G@LP  
=qG@K@G@KQJTG@+\(trm(hURrnG@K  
=qG@KQG@IzHG@JJ\$G@\*Qtro(hURrpG@J  
=qG@K@G@JG@JzHJcG@\*`=p  
trq(hURrrG@JQG@KzHG@J'zHG@K8QJPIG@+8Qtrs(hURrtG@KGzHG@KG@J`G@Jp  
=qJ'G@\*p



=qtru(hURrvG@KzHG@KQG@Jp  
=qG@KzHJ`qG@+  
=p  
trw(hURrxG@J  
=qG@J  
=qG@I  
=qG@J0  
=qJG@\*33333try(hURrzG@JgzHG@JG@JXQG@JzHJ}G@\*)tr{(hURr|G@Jp  
=qG@JG@Ip  
=qG@IxQJG@)u\{tr}(hURr~G@JP  
=qG@JQG@J@G@JQJG@\*  
=ptr(hURrG@J  
=qG@K  
=qG@JG@K0  
=qJPYg@+333333tr(hURrG@J  
=qG@KG@J  
=qG@J  
=qJsG@\*  
=qtr(hURrG@K@G@L  
=qG@K@G@KQJ`G@+  
=ptr(hURrG@K  
=qG@MG@KG@KJ0G@+Gztr(hURrG@L`G@LQG@J  
=qG@KJG@+Qtr(hURrG@KQG@K  
=qG@JG@JzHJG@\*fffftr(hURrG@JG@Kp  
=qG@J  
=qG@K`JG@+aGztr(hURrG@KzHG@KzHG@JG@K  
=qJ0G@+\(tr(hU RrG@K+QG@KQG@K G@K8QJP:G@+8Qtr(hU  
RrG@KG@LG@J  
=qG@K  
=qJ G@+33333tr(hURrG@LG@MG@KQG@MQJzG@-  
=ptr(hURrG@MzHG@N  
=qG@MP  
=qG@NJAkG@.tr(hU  
RrG@NP  
=qG@OG@M  
=qG@NzHJG@.  
=p  
tr(hURrG@MzHG@NXQG@MG@N@JG@.=p  
=tr(hURrG@N'zHG@N0  
=qG@MxQG@N'zHJG@.(\)tr(hURrG@NzHG@OG@M  
=qG@N  
=qJ {G@.\(tr(hURrG@MzHG@N@G@MGzHG@M`J+G@-aGztr(hURrG@MG@M  
=qG@MQG@MQJpG@-tr(hURrG@M  
=qG@N  
=qG@MzHG@N`JPG@.aGztr(hURrG@N0  
=qG@N`G@MQG@N0  
=qJ`G@.333333tr(hURrG@NXQG@NG@N  
=qG@N

=qJ G@.33333tr(hURrG@N  
=qG@O  
=qG@N  
=qG@O  
=qJ0zG@^(tr(hURrG@O`G@P@G@OXQG@P0JG@00  
=qtr(hURrG@P@G@P@G@OG@OzHJG@/  
=p  
tr(hURrG@OKQG@PwzHG@OzHG@PPJYG@00\tr(hU RrG@PG@Q3  
=pG@PG@Q'zHJ@G@1(\tr(hU RrG@PzHG@Q(\G@PzHG@Q  
=pJ G@1  
=ptr(hU RrG@Q(\G@RG@QG@R`J+{G@2aGztr(hU RrG@RpG@S|(\G@R`G@SzHJG@3  
=ptr(hU RrG@S(\G@SI(\G@RG@RJ@G@2Qtr(hU RrG@RG@R(\G@RwzHG@R  
=pJ`X#G@2  
=ptr(hU  
RrG@SG@SI(\G@R(\G@S\(\J6G@3\tr(hU  
RrG@SC  
=pG@SC  
=pG@R  
=pG@RJ@TG@2tr(hU RrG@RzGG@SG@R(\G@Ss  
=pJ@G@3s33333tr(hU RrG@SzHG@SzHG@RG@RzHJG@2  
=ptr(hU RrG@S  
=pG@S  
=pG@RwzHG@S3  
=pJG@3333333tr(hU RrG@SS  
=pG@SpG@SG@S<(\JLG@3=p  
=tr(hU RrG@S@G@TzHG@S7zHG@S  
=pJG@3\tr(hU RrG@RL(\G@RPG@Q@G@QPJ@&G@1O\tr(hU RrG@QpG@QzHG@QAGzG@Q  
=pJjdG@1zGtr(hU RrG@QzHG@QG@OG@OzHJ^oG@/\tr(hU RrG@O  
=qG@PGzG@OG@P<(\J#G@0=p  
=tr(hU RrG@PzHG@PG@NQG@NzHJ`G@.)\tr(hU RrG@NG@OG@LQG@M  
=qJ@7G@-Rtr(hU RrG@N G@NG@MG@MzHJ{fG@-=-p  
tr(hU RrG@MzHG@P(\G@MG@OzHJ"G@/\tr(hU  
RrG@O  
=qG@O8QG@MG@N(\JZOG@.\tr(hU  
RrG@O0  
=qG@P7zHG@O0  
=qG@P#  
=pJ`G@0#  
=ptr(hU  
RrG@PgZHG@QzHG@P0G@P(\JG@0p  
=tr(hU  
RrG@QWzHG@QgzHG@PG@P(\JTG@0tr(hU  
RrG@Q(\G@Q'zHG@P7zHG@PzHJJG@0  
=ptr(hU  
RrG@P(\G@P  
=pG@OG@Pc  
=pJpG@0c  
=ptr(hU

RrG@PG@QG@PG@P(\JG@0Qtr(hU  
RrG@PzHG@QgzHG@PG@P(\JW3G@0Qtr(hU  
  
RrG@PzHG@Q`G@OG@PRJ+[G@0\tr(hU  
RrG@QPG@RS  
=pG@Q@G@RL(\J@  
G@2Ltr(hU  
RrG@QzHG@R  
=pG@Q(\G@R  
=pJ~G@2  
=ptr(hU  
RrG@RwzHG@RG@QzHG@RPJ.G@2O\tr(hU  
RrG@QzHG@RG@Q(\G@Q JD-G@1Qtr(hU  
RrG@QG@RG@QG@RzHJMG@2zHtr(hU  
RrG@R#  
=pG@SC  
=pG@RzHG@SzHJG@3zHtr(hU  
RrG@SGzHG@SPG@RWzHG@R(\JG@2}p  
=tr(hU  
RrG@RG@SzHG@RpG@RJ/G@2Qtr(hU  
RrG@R(\G@RG@RS  
=pG@R  
=pJ5G@2\tr(hU  
RrG@RzHG@S'zHG@R(\G@SzHJG@3  
=ptr(hU  
RrG@SC  
=pG@SG@S  
=pG@SwzHJG@3xQtr(hU  
RrG@S  
=pG@TC  
=pG@S  
=pG@TzHJG@4zHtr(hURrG@TG@T,(\G@SWzHG@SgzHJ G@3h)tr(hURrG@SG@TI(\G@SS  
=pG@TJG@4\tr (hURr  
G@TgzHG@TG@T@G@T`JG@4aGztr(hURrG@T  
=pG@UWzHG@T'zHG@TzHJG@4)tr  
(hURrG@U'zHG@VzHG@UG@V  
=pJ0G@6zGtr(hURrG@UG@XnQG@UG@XzHJ9G@8  
=ptr(hU RrG@WzHG@WG@VG@VgzHJ!G@6h)tr(hU  
RrG@VG@WPG@VzHG@V(\JC;G@6\tr(hURrG@V(\G@W'zHG@VwzHG@WJfG@7\tr(hURrG@V(\G@W  
G@UzHG@VzHJP!G@6)tr(hURrG@VgzHG@W7zHG@V G@V(\JG@6\tr(hURrG@VG@VG@V  
G@V(\JPG@6tr(hURrG@V(\G@WG@VG@VJ@G@6\tr(hURr G@V  
=pG@VzHG@V(\G@VgzHJG@6h)tr!(hURr"G@V`G@W7zHG@V  
=pG@W(\JQG@7\tr#(hURr\$G@VG@VG@VPG@VzHJnG@6)tr%(hURr&G@VG@WG@V G@W3  
=pJ@(G@733333tr'(hURr(G@W@G@WG@V(\G@W(\J>uG@7Qtr)(hURr\*G@WG@WG@WzHG@W  
=pJ@JHG@7\tr+(hURr,G@WG@XG@WPG@W  
=pJ0G@7  
=ptr-(hURr.G@XzHG@YG@XWzHG@XwzHJG@8xQtr/(hURr0G@Y@G@Z G@Y  
=pG@Y

=pJP0QG@9\tr1(hURr2G@YzHG@[zHG@YpG@[(\Ja5G@;tr3(hURr4G@(\G@\  
=pG@[zHG@\J BaG@<tr5(hURr6G@\  
=pG@]S  
=pG@[(\G@]JG@=tr7(hURr8G@]#  
=pG@]G@\G@]s  
=pJG@=s33333tr9(hURr:G@]G@]wzHG@[`G@[  
=pJ0G@;(\tr;(hU Rr<G@[G@[G@Y7zHG@ZPJ=G@:O\tr=(hU  
Rr>G@ZS  
=pG@[PG@XG@YJ[G@9tr?(hU  
Rr@G@Y)\G@YG@X(\G@XJ  
G@8trA(hURrBG@XzHG@XG@WG@WzHJpG@7QtrC(hURrDG@WPG@XPG@V  
=pG@X@J@SG@8@trE(hURrFG@XG@XzHG@WG@X  
=pJG@8zGtrG(hURrHG@Y7zHG@YG@XG@YJG@9trI(hURrJG@X  
=pG@XzHG@X'zHG@XJG@8trK(hURrLG@X(\G@Y  
=pG@X|(\G@YJG@9QtrM(hURrNG@YzHG@Z#  
=pG@XG@X(\J@G@8p  
=trO(hURrPG@Ys  
=pG@ZG@YC  
=pG@YJh)G@9GztrQ(hURrRG@ZzHG@Z(\G@XG@X  
=pJp[G@8zGtrS(hURrTG@XzHG@XzHG@WG@X(\JG@8trU(hURrVG@X3  
=pG@Y(\G@WG@Y,(\J0G@9+QtrW(hURrXG@Y(\G@ZzHG@XzHG@Y  
=pJ@5qG@9zGtrY(hURrZG@Y<(\G@YzHG@XG@Y  
=pJ\YG@933333tr[(hURr\G@Z7zHG@\ G@Yl(\G@[(\J\$G@;p  
=tr](hURr^G@[G@[zHG@YL(\G@YJpcG@9Qtr\_(hURr`G@YG@[  
=pG@YG@ZJxG@:tra(hURrbG@ZzHG@ZG@WG@WJG@7trc(hURrdG@X  
G@Y@G@WG@XJ 5G@8Gztre(hU  
RrfG@YG@YG@WG@XpJG@8p  
=qtrg(hURrhG@W(\G@XzHG@VG@W0JG@70  
=qtri(hURrjG@WG@WG@UG@U(\JG@5trk(hU  
RrlG@WQG@XG@W G@X0J2G@80  
=qtrm(hURrnG@YG@YG@XzHG@Y(\J`G@9\tro(hURrpG@Y@G@ZG@Y(\G@Y(\JPG@9p  
=trq(hURrrG@ZgzHG@[0G@YzHG@Z  
=pJEG@:  
=ptrs(hURrtG@\G@^`G@`\G@`\J06G@<aGztru(hURrvG@\G@\G@[(\G@\  
=pJG@;zGtrw(hURrxG@[(\G@\0G@ZGzHG@ZJzG@::(try(hURrzG@Z@G@\GzHG@YzHG@\J`G@<(\tr{(hU  
Rr]G@[G@\(\G@[pG@[(\J]G@;tr)(hURr~G@[3  
=pG@@\G@ZG@[JG@;tr(hURrG@[(\G@[zHG@Y'zHG@YgzHJpG@9h)\tr(hURrG@Y@G@YzHG@WG@YJ  
`~G@9  
=qtr(hURrG@ZG@Z@G@YG@YJ G@9\tr(hURrG@Y0G@YzHG@X@G@X  
=pJ G@833333tr(hURrG@Y  
=pG@ZG@YG@Y  
=pJG@9zGtr(hURrG@Y(\G@[G@YzHG@[J G@;tr(hURrG@[G@\G@Z|(\G@\  
=pJG@<(\tr(hURrG@\G@]zHG@[G@]zHJ`G@<Qtr(hU RrG@\zHG@]GzHG@(\G@]zHJ=G@<(\tr(hU  
RrG@]7zHG@]wzHG@[G@]\JJG@<aGztr(hURrG@]gzHG@\zHG@[G@[0J@sG@;0  
=qtr(hURrG@[S  
=pG@\zHG@[`zHG@\  
=pJYG@<33333tr(hURrG@\G@](\G@(\G@]JG@=tr(hURrG@]pG@]zHG@\zHG@\zHJ`G@<zHtr(hURrG@(\G@\  
G@\G@\GzHG@\zHJG@<Qtr(hURrG@\zHG@\zHG@[zHG@[J\G@;(\tr(hURrG@[zHG@]<(\G@Z(\G@s

=pJ&G@<s33333tr(hURrG@\NQG@]G@[G@]JG@=(tr(hURrG@]S  
=pG@]zHG@[G@]J-G@<tr(hURrG@\  
=pG@]@G@[zHG@[zHJG@;  
=ptr(hURrG@[zHG@\G@[zHG@\PJOG@<O)(tr(hURrG@\c  
=pG@]PG@\#  
=pG@\zHJ6G@<)tr(hURrG@]  
=pG@`RG@]G@`IRJ KG@@J=p  
tr(hURrG@\_G@\_(\G@^,(\G@^J  
G@>tr(hURrG@\_7zHG@`(\G@^G@`JxG@@tr(hURrG@\_G@`\$(\G@\_@G@\_1(\JrG@?kQtr(hURrG@\_(\G@\_(\G@^GzHG@^zHJ  
G@>Qtr(hURrG@^zHG@^(\G@]  
=pG@^JG@>tr(hU RrG@^7zHG@\_@G@]G@^JG@>)(tr(hU  
RrG@^1(\G@\_(\G@^@G@\_pJG@?p  
=qtr(hU  
RrG@^zHG@\_G@]G@^S  
=pJG@>TzGtr(hURrG@^NzGG@\_G@\G@\JpG@<)(tr(hURrG@\zHG@^G@\zHG@]JPG@=(tr(hURrG@]S  
=pG@^G@\G@^c  
=pJ@G@>c  
=ptr(hURrG@^zHG@\_@G@]zHG@\_@J[G@?@tr(hURrG@^G@\_G@^zHG@^JoG@>tr(hURrG@^  
=pG@aG@^gzHG@`zGJG@@Qtr(hURrG@`)G@b(\G@`qRG@bzGJ  
5G@Bfffftr(hURrG@aG@b(\G@aG@aRJ2G@A=p  
tr(hURrG@azGG@azGG@`G@aVzGJG@AU)(tr(hURrG@a4(\G@bG@a(\G@aqrJ;G@aQrtr(hURrG@a(G@aG  
@a\$(\G@ad(\JnG@Ac  
=ptr(hURrG@al(\G@anzGG@`(\G@`zGJG@@Qtr(hURrG@`RG@a6zGG@\_(\G@\_pJG@?p  
=qtr(hURrG@\_(\G@a(G@\_G@`RJG@@tr(hURrG@`G@apG@`.zGG@`RJ,G@@=p  
tr(hURrG@`(\G@`G@]OG@\_  
=pJp  
hG@?zGtr(hURrG@\_zGG@`(\G@\_G@`L(\J  
G@@Ltr(hURrG@`T(\G@`G@^G@\_L(\JOG@?Ltr(hURrG@\_G@`(\G@\_`G@`xJFG@@xQtr(hU  
RrG@`vzGG@`G@\_OG@\_@JsG@?@tr(hURrG@^G@\_7zHG@]  
=pG@](\J@'G@=(\tr(hURrG@]G@]G@Z7zHG@[PJpG@;O)(tr(hU  
RrG@[G@^G@[ G@]s  
=pJP G@<s33333tr(hURrG@[S  
=pG@]G@[G@[zHJkG@;Qtr(hURrG@[`G@^(\G@[C  
=pG@^zHJIG@>Qtr(hURrG@^G@\_zHG@]zHG@\_zHJG@?Qtr(hURrG@\_(\G@`HG@]G@^GzHJ  
G@>GzHtr(hURrG@^(\G@\_OG@]C  
=pG@]zHJG@=Qtr(hURrG@\G@^ G@\G@^ JG@>Qtr(hURrG@^zHG@`G@^  
=pG@` RJG@@  
=p  
tr(hURrG@\_zHG@`G@^G@^S  
=pJ(G@>TzGtr(hURrG@]L(\G@\_G@])%QG@\_J0IG@?  
=qtr(hURrG@\_zHG@\_G@^S  
=pG@\_  
=pJ0LG@?)(tr(hURrG@\_7zHG@\_GzHG@^wzHG@\_  
=pJ{G@?zGtr(hURrG@^G@\_G@]`G@]wzHJG@=xQtr(hURrG@](\G@^PG@[zHG@\  
=pJ`G@<)(tr(hURrG@\zHG@\G@[  
=pG@[(\JpG@;Qtr(hURrG@[  
=pG@\G@[zGG@\GzHJG@<GzHtr (hURr

G@\\(G@\\l(G@[G@[zHJ dG@;zHtr(hU RrG@[  
=pG@[G@Z7zHG@Z(\JNG@:\(tr  
(hU  
RrG@Z  
=pG@Z@G@XG@X  
=pJ0#G@8zGtr(hURrG@YWzHG@ZG@XG@Y  
=pJgG@933333tr(hURrG@ZG@[G@Z1GzG@ZzHJPDG@:\)tr(hURrG@[  
=pG@[  
=pG@YzHG@Y@J`rG@9@tr(hURrG@Z!GzG@[C  
=pG@YG@Zl(\JPG@:kQtr(hURrG@YzHG@Y(\G@YzHG@YWzHJG@9W  
=ptr(hURrG@YG@Z<(\G@Y'zHG@Y0J`G@90  
=qtr(hURrG@XG@XG@WWzHG@WJ@G@7tr(hURrG@WpG@WpG@UG@V|(\JG@6}p  
=tr(hURr G@VG@WWzHG@UgzHG@Us  
=pJG@5s33333tr!(hURr"G@U(\G@VpG@TG@U(\JqG@5Qtr#(hURr\$G@V G@W\*=  
G@UG@UGzJG@5Rtr%(hURr&G@VG@VwzHG@UPG@UzHJbG@5  
=ptr'(hURr(G@UzHG@VzHG@TpG@U  
=pJG@5  
=ptr(hURr\*G@UzHG@VG@T  
=pG@UJBG@5tr+(hURr,G@TpG@Vc  
=pG@TzHG@VGzHJG@6GzHtr-(hURr.G@WpG@XG@V@G@W#  
=pJaG@7#  
=ptr/(hURr0G@WS  
=pG@WG@Vl(\G@V  
=pJ0G@6zGtr1(hURr2G@VzGG@X0G@V  
=pG@W7zHJmG@78Qtr3(hURr4G@WgzHG@X@G@VzHG@X#  
=pJG@8#  
=ptr5(hURr6G@XgzHG@XG@WGzHG@W  
=pJRG@733333tr7(hU Rr8G@X0G@X|(\G@WzHG@WJ`G@7  
=qtr9(hURr:G@XzHG@X(\G@VzHG@V(\JMG@6tr;(hU  
Rr<G@V(\G@V(\G@V(\G@WJG@7Qtr=(hURr>G@W(\G@XG@VzHG@V(\JPrG@6(\tr?(hURr@G@VG@W  
WzHG@V@G@WzHJG@7  
=ptrA(hURrBG@W`G@WpG@VC  
=pG@V(\J qG@6trC(hURrDG@V  
=pG@XwzHG@Vs  
=pG@X'zHJG@8(\)trE(hURrFG@XG@Y(\G@XzHG@YPJwG@90)(trG(hURrHG@I@G@LxQG@I'zHG@K  
=qJ`G@;RtrI(hURrJG@KG@L  
=qG@JzHG@JJG@:GztrK(hURrLG@J  
=pG@KP  
=qG@IgzHG@IQJPoG@9  
=ptrM(hURrNG@J@G@K`G@J  
=qG@K  
=qJX.eG@;RtrO(hURrPG@J  
=pG@KG@I  
=qG@IJnG@9GztrQ(hURrRG@JzHG@K  
=qG@IG@K8QJx,G@;8QtrS(hURrTG@JzHG@JQG@IzHG@IJ0oG@9QtrU(hURrVG@JgzHG@KxQG@IQG  
@J0  
=qJ0=G@:0  
=qtrW(hURrXG@J

=qG@K'zHG@J  
=qG@JzHJX&G@:)trY(hURrZG@JG@KQG@rG@I  
=qJG@9Rtr[e((hURr\G@J@G@JxQG@H  
=qG@IzHJG@9)tr](hURr^G@JKQG@KgzHG@J  
=qG@K8QJG@;8Qtr\_(hU  
Rr`G@KQG@M G@JG@L  
=qJG@<Rtra(hURrbG@LG@MG@KQG@LxQJ`G@<xQtrc(hURrdG@M  
=qG@MxQG@L0  
=qG@Mp  
=qJzG@=p  
=qttr(hU  
RrfG@M@G@NP  
=qG@K`G@L@J`G@<@trg(hURrhG@L  
=qG@MG@Lp  
=qG@LQJgG@<  
=ptri(hURrjG@M G@MgzHG@L  
=qG@M'zHJ(G@=(\)trk(hURrlG@M@G@Mp  
=qG@Lp  
=qG@LJG@<Qtrm(hURrmG@KQG@LgzHG@IG@JXQJG@:W  
=ptro(hURrpG@KG@LzHG@K  
=qG@K  
=qJG@;Rtrq(hURrrG@K.zGG@K  
=qG@JxQG@JzHJPKG@:zHtrs(hURrtG@JGzHG@Jp  
=qG@GG@HXQJXG@8W  
=ptru(hURrvG@I'zHG@IP  
=qG@HzHG@IzHJ`wsG@9zHtrw(hURrxG@HQG@IG@HG@IzHJ8rG@9zHtry(hURrzG@IG@JG@H  
=qG@JJG@:tr{(hURr|G@J#  
=pG@J@G@Gp  
=qG@H'zHJ8G@8(\)tr}(hURr~G@HzGG@I  
=qG@H`G@IgzHJTG@9h)tr(hURrG@I'zHG@IzGG@HG@HzHJJG@8)tr(hURrG@HG@HQG@GQG@GJXG  
@7Qtr(hURrG@FzHG@HzHG@F G@HJdG@8tr(hURrG@H(\G@IG@G'zHG@G  
=qJPG@7  
=qtr(hURrG@G  
=qG@HzHG@GQG@GQJ0fG@7Qtr(hURrG@GQG@HG@G'zHG@G`J)`G@7aGztr(hU RrG@H  
=qG@H8QG@GG@GJG@7tr(hU  
RrG@HG@H8QG@G  
=qG@GzHJHBG@7zHtr(hURrG@GkQG@HG@FzHG@GQJG@7  
=ptr(hURrG@GQG@GQG@G'zHG@GzHJHUG@7zHtr(hURrG@GG@GQG@G@G@GXQJd>G@7W  
=ptr(hURrG@Gp  
=qG@HG@GgzHG@H@JdNG@8@tr(hURrG@H0  
=qG@J8QG@H'zHG@IQJG@9Qtr(hURrG@I  
=qG@IzHG@H  
=qG@IJgG@9tr(hURrG@I G@IzHG@H  
=qG@I@JLIG@9@tr(hURrG@IP  
=qG@JgzHG@I0  
=qG@IQJG@9  
=ptr(hURrG@I(\G@K`G@IzHG@K'zHJ?G@;(\)tr(hURrG@KU\(\G@LP  
=qG@J

=qG@LzGJG@<(\tr(hURrG@L@G@LG@L0  
=qG@LgzHJOG@<h)\tr(hURrG@LG@MG@LzHG@MzHJHG@=zHtr(hURrG@L  
=qG@MQG@LQG@MQJG@=  
=ptr(hURrG@MG@NG@MYG@MJ0G@=tr(hURrG@M|(\G@NG@MxQG@NxQJG@>xQtr(hU  
RrG@NzHG@O  
=qG@N  
=qG@OQJhG@?Qtr(hU RrG@OTzGG@PzHG@O G@O8QJG@?8Qtr(hU RrG@N  
=qG@O0  
=qG@LG@M8QJG@=8Qtr(hU RrG@M  
=qG@OGzHG@M G@OJ vG@?tr(hU RrG@N  
=qG@N  
=qG@M@G@Mp  
=qJjG@=p  
=qtr(hU RrG@MXQG@N0  
=qG@M  
=qG@M8QJ7fG@=8Qtr(hU RrG@LQG@NzHG@LG@LJfG@<Gztr(hU  
RrG@L`G@MG@L`G@MJxG@=tr(hU RrG@MGzHG@M  
=qG@LgzHG@LnzGJHG@<nzGtr(hU RrG@LG@MQG@K G@Kp  
=J(G@;\tr(hU RrG@KG@N`G@KzHG@NTzGJ@\_G@>TzGtr(hU  
RrG@MG@N@G@MGzHG@MQJG@=Qtr(hU RrG@MzGG@NQG@MGzHG@NffffJ{G@>Qtr(hU  
RrG@M@G@M  
=qG@KG@LXQJKG@<W  
=ptr(hU RrG@I'zHG@J8QG@IG@JQJ"G@:  
=ptr(hU RrG@J`G@KG@JzHG@JJ|G@:tr(hU RrG@JzHG@K`G@I  
=qG@IQJG@9Qtr(hU RrG@IG@J`G@H G@HxQJDG@8xQtr(hU RrG@HzHG@JzHG@H  
=qG@JJG@:tr(hU RrG@<0  
=qG@=G@9^QG@9JG@)\tr(hU  
RrG@:  
=qG@:G@7G@8@J)G@=(=p  
=tr(hU  
RrG@8  
=qG@9G@60  
=qG@6O)(JVG@&Ltr(hU  
RrG@6^QG@7G@5QG@7QJHG@'Qtr(hU  
RrG@7G@8G@6G@6)(JG@&\tr(hU  
RrG@6  
=qG@6  
=qG@5G@60  
=qJMG@&333333tr(hU  
RrG@6QG@6QG@5QG@5JEG@%\tr(hU  
  
RrG@5QG@6p  
=qG@4G@4QJxG@\$Gztr(hU  
RrG@4QG@5G@3QG@3QJ0G@#Qtr(hU  
RrG@4O)(G@4(G@3G@4J;G@\$tr(hU  
  
RrG@4@G@6QG@4G@6(J G@&\tr(hU  
RrG@6O)(G@7@G@5^QG@5JpG@%tr(hU



RrG@5  
=qG@5  
=qG@3  
=qG@4QJ0GG@\$Qtr(hU  
RrG@3p  
=qG@5\G@2G@4QJG@\$Qtr(hU  
RrG@3\G@3\G@2O\G@2  
=qJX35G@"  
=qtr(hU  
RrG@3\G@4^QG@2  
=qG@3J@\_G@#tr(hU  
RrG@4EQG@4\G@3p  
=qG@4^QJ,G@\$aGztr(hU  
RrG@4  
=qG@4QG@2\G@2QJzG@"Gztr(hU  
RrG@3\G@30  
=qG@2p  
=qG@2JiG@"tr(hU  
RrG@2\G@2QG@1G@2JxaG@"tr(hU  
RrG@2QG@30  
=qG@1QG@2\J(G@"\tr(hU  
RrG@3QG@3  
=qG@2G@3O\Jf\G@#Ltr(hU  
Rr G@3G@4@G@3@G@3\JG@#\tr (hURr G@3p  
=qG@4QG@3p  
=qG@4JH9G@\$tr (hURr G@5QG@6p  
=qG@5\G@6O\J  
BG@&Ltr (hURr G@7G@7G@5  
=qG@6@JhG@&=p  
=tr (hURr G@6p  
=qG@6QG@4QG@5p  
=qJG@%p  
=qtr (hURr  
G@5G@5\G@4\G@5O\JG@%Ltr (hURr G@5^QG@5p  
=qG@3\G@4\J0%G@\$)\tr  
(hU Rr G@3QG@4G@3\G@40  
=qJG@\$333333tr (hU  
Rr G@3\G@3QG@3\G@3\JG@#\tr (hU  
Rr G@2G@4G@2@G@3^QJVG@#aGztr (hURr G@3  
=qG@4G@3\G@4@JG@\$=p  
=tr (hURr G@4zHG@40  
=qG@3@G@3QJG@#Gztr (hURr G@3G@3\G@2QG@3JG@#tr (hURr G@30  
=qG@3@G@2@G@2JFG@"tr (hURr G@2  
=pG@3G@2@G@2  
=qJ`G@"  
=qtr (hURr G@30  
=qG@3G@2G@2\JG@"tr (hURr G@2\G@3QG@2^QG@2J  
G@"tr! (hURr" G@2\G@3G@2\G@3O\JWG@#Ltr# (hURr\$ G@3QG@3

=qG@2G@2  
=qJ`  
G@"33333tr% (hURr& G@2  
=qG@3G@1  
=qG@2zHJG@"  
=p  
tr' (hURr( G@2  
=pG@2O\(\G@1@G@1\JXG@!\(tr) (hURr\* G@0  
=qG@1G@0QG@0JXQG@ tr+ (hURr, G@1G@1G@0\(\G@1\JRG@!\(tr- (hURr. G@10  
=qG@10  
=qG@0p  
=qG@0  
=qJ8G@ 33333tr/ (hURr0 G@0  
=qG@1p  
=qG@0^QG@1JNG@!tr1 (hURr2 G@-B\(\G@.G@,G@,QJ0G@  
=ptr3 (hURr4 G@,GzG@-\(\G@,G@,QJG@  
=ptr5 (hURr6 G@-QG@.QG@,GzG@.QJHG@Qtr7 (hURr8 G@.aGzG@.\(\G@-\(\G@.aGzJUG@!\(tr9 (hURr:  
G@.G@0G@.G@.\(JG@)\(tr; (hU  
Rr< G@/QG@/QG@-\(\G@.J G@tr= (hURr> G@.\(\G@.G@,GzG@,GzJG@Gztr? (hURr@ G@-QG@-  
aGzG@,G@,QJ5G@QtrA (hURrB G@-QG@-B\(\G@+GzG@,JHG@zG{trC (hURrD G@,\(\G@.G@,G@,JG@trE  
(hURrF G@+\(\G@-B\(\G@+B\(\G@,\(Jh+4G@)\(trG (hURrH G@,G@.G@+\(\G@,QJG@QtrI (hURrJ  
G@,B\(\G@.G@,B\(\G@.J|G@trK (hURrL G@-\(\G@.G@,G@-aGzJx/vG@!\(trM (hURrN G@,zGG@-  
QG@,aGzG@-QJfG@  
=ptrO (hURrP G@,\(\G@-GzG@,QG@-QJ0yG@  
=ptrQ (hURrR G@-aGzG@.G@-G@-\(JWG@)\(trS (hURrT G@-\(\G@.G@-QG@-\(JG@)\(trU (hURrV G@-G@0  
=qG@,GzG@0^QJhGG@ aGztrW (hURrX G@2#  
=pG@2G@0\(\G@1\JG@!\(trY (hURrZ G@0  
=qG@1^QG@0\(\G@0^QJG@ aGztr[ (hURr\ G@0  
=qG@0G{G@/GzG@0\JpG@ \(\tr] (hU Rr^ G@0\(\G@1  
=pG@0\(\G@10  
=qJ  
AG@!33333tr\_ (hU  
Rr` G@0  
=qG@1G@0\(\G@0\J<G@ \(\tra (hURrb G@0@G@2G@0@G@2JG@"trc (hURrd G@1QG@2G@1\(\G@10  
=qJhG@!333333tre (hURrf G@1p  
=qG@2@G@1G@1QJ`G@!Qtrg (hURrh G@1\(\G@1\(\G@0G@0\J`VG@ tri (hURrj G@1\(\G@2G@1QG@2  
=qJG@"333333trk (hURrl G@3p  
=qG@3\(\G@2  
=qG@3JhgG@#trm (hURrn G@3\(\G@3QG@2p  
=qG@3@J0G@#=#p  
=tro (hURrp G@3O\(\G@4  
=qG@3\(\G@4J hG@\$trq (hURrr G@4QG@4  
=qG@3\(\G@4JHG@\$trs (hURrt G@4\(\G@4\(\G@3G@3  
=qJ  
G@#  
=qtru (hURrv G@3G@3\(\G@3\(\G@3\J%G@#\(\trw (hURrx G@3\(\G@5G@3\(\G@5  
=qJYG@%33333try (hURrz G@5\(\G@6G@4QG@5JkyG@%\(\tr{ (hURr| G@5G@6G@5p  
=qG@5QJXG@%Qtr} (hURr~ G@4

=qG@5G@4G@5QJG@%Qtr (hURr G@5QG@5  
=qG@4G@4QJG@\$Qtr (hURr G@4G@4\G@3G@40  
=qJ@G@\$333333tr (hURr G@4\G@5c  
=pG@4G@5QJ4G@%Qtr (hURr G@4)G@4QG@3\G@4J0G@\$tr (hURr G@4\G@5\G@40  
=qG@4Jh\IG@\$(tr (hU Rr G@4G@4\G@2  
=qG@3QJAG@#Qtr (hURr G@3\G@4G@2\G@3  
=qJxG@#333333tr (hU  
Rr G@3  
=qG@4p  
=qG@3G@3QJH@G@#Qtr (hURr G@30  
=qG@3QG@2G@3JuG@#tr (hURr G@3  
=qG@4\G@3  
=qG@4(JG@\$tr (hURr G@3G@3G@2G@3JG@#tr (hURr G@30  
=qG@3p  
=qG@20  
=qG@2O\JG@"Ltr (hURr G@2@G@3  
=qG@2@G@2QJG@"Gztr (hURr G@3\G@3^QG@2G@2\J vG@"tr (hURr  
G@2QG@2QG@2@G@2\JxFG@"tr (hURr G@3\G@3  
=qG@2\G@3J pG@#tr (hURr G@3GzHG@3p  
=qG@2  
=qG@3^QJG@#aGztr (hURr G@3^QG@3p  
=qG@2QG@2@J G@"=p  
=tr (hURr G@1\G@2G@10  
=qG@2JG@"tr (hURr G@2O\G@4p  
=qG@2@G@3@JIG@#=p  
=tr (hURr G@3^QG@4G@3@G@4^QJG@\$aGztr (hURr G@4QG@6\G@4  
=qG@5JXG@%tr (hURr G@5O\G@5QG@4G@5@JG@%=p  
=tr (hURr G@4  
=qG@5QG@4p  
=qG@4\JoG@\$tr (hU Rr G@4QG@4  
=qG@4G@4@JG@\$=p  
=tr (hURr G@3  
=qG@3QG@2QG@2QJ!G@"Qtr (hU  
Rr G@2QG@3\G@20  
=qG@3\JXG@#\tr (hURr G@2G@4G@2p  
=qG@4p  
=qJeG@\$p  
=qtr (hURr G@4QG@5^QG@3  
=qG@3  
=qJ} G@#333333tr (hURr G@3G@40\G@2QG@3QJrG@#Qtr (hURr G@3G@4QG@3G@4\Jp"G@\$(tr (hURr  
G@4QG@4  
=qG@3  
=qG@3  
=qJHG@#333333tr (hURr G@3zHG@4QG@3^QG@4QJiG@\$Qtr (hURr G@4^QG@5G@40  
=qG@5QJEG@%Qtr (hURr G@6\G@7\G@6G@7JG@'tr (hURr G@7!GzG@7G@5!GzG@5zHJ>G@%zHtr  
(hURr G@5  
=qG@7G@5ffffG@6QJ[(G@&Gztr (hURr G@6zGG@6G@5G@6+QJ>G@&.zGtr (hURr  
G@5QG@7s333333G@5G@6zHJ NG@&=p

tr (hURr G@6G@6QG@5W  
=pG@6RjX,G@&(\tr (hURr G@6  
=pG@6)G@5fffffG@5  
=pJ(G@%tr (hURr G@5\(\G@5fffffG@4!GzG@4=p  
=J(G@\$=p  
=tr (hURr G@3\(\G@4@G@2G@3J@uG@#tr (hURr G@4G@6G@4G@4QJXwG@\$Gztr (hURr G@4G@5  
=p  
G@3fffffG@4  
=pJ  
G@\$tr (hU Rr G@4  
=qG@5W  
=pG@4\(\G@4=p  
JFG@\$=p  
tr (hU  
Rr G@4fffffG@633333G@4zHG@6  
=p  
J?G@&  
=p  
tr (hURr G@6G{G@7G@5GzHG@5J'G@%tr (hURr G@5kQG@7QG@5&fffffG@6kQJG@&kQtr (hURr G@6  
=pG@6fffffG@4\(\G@5p  
=qJhoG@%p  
=qtr (hURr G@5333333G@55\(\G@3G@4fffffJhguG@\$ffffftr (hURr G@5RG@8zGG@5zGG@6=p  
JXWG@&tr (hURr G@9G@9G@7G@9QJG@)Qtr (hURr G@8zGG@9GzG@8G@9  
=p  
JyG@)  
=p  
tr (hURr G@8W  
=pG@9G@8G@8@J'G@=(p  
=tr (hURr G@8TzGG@8G@7\(\G@8zHJG@(  
=p  
tr (hURr G@85\(\G@8\(\G@7RG@8QJBG@(\Qtr (hURr G@9+QG@:G@8zGG@8  
=qJG@(33333tr (hURr G@9333333G@:J=p  
G@8G@:333333J8G@\*333333tr (hURr G@:33333G@;QG@8QG@9)p  
=J  
G@)zG{tr (hURr G@9h\)\G@:G@9333333G@9zGJxG@)  
=qtr (hURr G@:W  
=pG@:33333G@9\(\G@:  
=pJG@\*tr (hURr G@9QG@:@G@8G{G@8\JSG@(\tr (hURr G@8=p  
=G@9G@7\(\G@9J)G@)\tr (hURr!G@9QG@9\(\G@8  
=pG@8\J@G@(\tr!(hURr!G@9YG@9s33333G@733333G@8RJ@G@(\tr!(hU Rr!G@8#  
=pG@8G@7QG@7G{J  
G@'G{tr!(hU  
Rr!G@85\(\G@8G@633333G@7JzG@'tr!(hURr!G@7\(\G@7)p  
=G@6\(\G@6JnG@&(\tr !(hURr  
!G@6  
=pG@7zGG@6G@7J=p  
JG@'Ltr!(hURr!G@7^QG@9G@7  
=p

G@7.zGJ0+G@'.zGtr  
!(hURr!G@7B\G@8G@6G@8JG@(tr!(hURr!G@8:G{G@8TzGG@7@G@7JG@'=p  
tr!(hURr!G@7\G@7  
=pG@7QG@7zHJVg@'=p  
tr!(hURr!G@7GzG@7)G@7G@7\JH9G@'(tr!(hURr!G@8G@8!GzG@7fffffG@7JxG@'tr!(hURr!G@7G@7G  
@6\G@7:G{J'G@'8Qtr!(hURr!G@7J=p  
G@7LG@6QG@7333333JG@'333333tr!(hURr!G@7333333G@7J=p  
G@6G@6\JVG@&\(tr!(hURr!G@6QRG@6G@4\G@5xQJ(1G@%u\tr!(hURr  
!G@4\G@4\G@3LG@3zHJ`yG@#zHtr!!(hURr"!G@3G@4=p  
=G@3}p  
=G@333333J[G@#\tr#!(hURr\$!G@4!GzG@5  
=pG@3G{G@4  
=pJG@\$Gztr%!(hURr&!G@5zGG@5\G@4u\G@4)JxG@\$)tr!(hURr(!G@4G@5G@4YG@4  
=qJG@\$  
=qtr!(hURr\*!G@4zGG@4zGG@4TzGG@4G{J(yG@\$Qtr+!(hURr,!G@4\G@533333G@4s33333G@5)J5G@  
%)tr-(hURr.!G@5fffffG@5fffffG@4\G@5QRJ8G@%QRtr!(hURr0!G@5G@5RG@333333G@4  
=p  
J7G@\$  
=p  
tr1!(hURr2!G@3QG@4  
=qG@3\G@4O\JG@\$Ltr3!(hU  
Rr4!G@5kQG@5G{G@4\G@4xQJG@\$u\tr5!(hURr6!G@4  
=p  
G@4s33333G@3QG@3GzJ  
G@#Gztr7!(hURr8!G@4G@4G@3YG@4p  
=qJ8G@\$p  
=qtr9!(hURr:!G@4h)G@4G@4G@4TzGJG@\$QRtr;!(hURr<!G@4G@5fffffG@4\G@40  
=qJG@\$333333tr=!(hURr>!G@4G@5G@3G{G@5QJ6G@%zGtr?!(hURr@!G@5G@7G@5G@6}p  
=JG@&zG{trA!(hURrB!G@6zG{G@7G@5\G@6B\J G@&B\trC!(hURrD!G@6G@8G@6s33333G@7p  
=JG@'G{trE!(hURrF!G@7W  
=pG@7QG@7\G@7JxG@'\trG!(hURrH!G@7zGG@8G@6G@7W  
=pJG@'W  
=ptrI!(hURrJ!G@7G@7)G@6  
=qG@7=p  
J@G@'=p  
trK!(hURrL!G@7)G@9G@7333333G@7@JG@'=p  
=trM!(hURrN!G@7  
=pG@8:G{G@7#  
=pG@7fffffJ]G@'ffffftrO!(hURrP!G@7\G@8.zGG@7G@7  
=pJT=G@'  
=ptrQ!(hURrR!G@7G@7QG@7\G@70  
=qJRG@'333333trS!(hURrT!G@6\G@6\G@5QG@6zHJ(G@&  
=p  
trU!(hU RrV!G@6  
=pG@7G@5zGG@633333JG@&33333trW!(hU  
RrX!G@633333G@7RG@4  
=pG@5#  
=pJgG@%#

=ptrY!(hURrZ!G@5zHG@6G@5G@6=p  
JgG@&=p  
tr!(hURr!G@7LG@8(G@7LG@8(\JP  
OG@(\tr)!hU  
Rr^!G@8!GzG@9(G@7  
=pG@8JG@(\tr\_!(hURr!G@8GzG@9G@7)G@7(JG@#\tra!(hURrb!G@7G{G@98QG@7(G@9J  
aG@)trc!(hURrd!G@5zHG@6zHG@4kQG@4=p  
JpkG@\$tre!(hURrf!G@5:G{G@5kQG@3G@3(JHG@#\trg!(hURrh!G@333333G@4(G@3)p  
=G@3G{JpGG@#G{tri!(hURrj!G@4  
=pG@4G@3(G@3=p  
JG@#=p  
trk!(hURrl!G@3c  
=pG@3QG@2G{G@3  
=pJG@#trm!(hURrm!G@3QG@3LG@1QG@2xQJG@"u(tro!(hURrp!G@2zG{G@2G@1G@2  
=pJp\*G@"trq!(hURrr!G@2G@3@G@2G@2(JG@#\trs!(hURrt!G@3QG@3(G@2(G@2zGJG@"  
=qtru!(hURrv!G@3EQG@3kQG@2(G@2=p  
JHG@"trw!(hURrx!G@3(G@3zHG@233333G@3(JG@#\try!(hURrz!G@3ffffG@3QG@3B(G@3RJG@#Rtr  
{!(hURr!G@3  
=pG@3ffffG@3G@3J@deG@#tr}!(hURr~!G@3  
=p  
G@3)G@3G@3!GzJXN6G@#Qtr!(hURr!G@3TzGG@3QG@2G{G@3@J]G@#=p  
=tr!(hURr!G@3B(G@333333G@2=p  
G@2ffffJ G@"fffftr!(hU Rr!G@2(G@3&ffffG@2QG@3JZmG@#  
=p  
tr!(hU  
Rr!G@3  
=p  
G@3QRG@2  
=pG@3QJeG@#Qtr!(hU  
Rr!G@3G@3TzGG@2(G@3  
=pJPG@#tr!(hURr!G@3333333G@3(G@2QG@2G{J]G@"Qtr!(hURr!G@2(G@2  
=qG@2333333G@2p  
=qJG@"p  
=qtr!(hURr!G@2EQG@2G@1QG@2ffffJhG@"  
=ptr!(hURr!G@2G@2s33333G@1p  
=G@2RJXqG@"(tr!(hURr!G@2#  
=pG@2:G{G@1(G@2QJp~G@"Qtr!(hURr!G@2#  
=pG@2#  
=pG@133333G@1QJ3eG@!Qtr!(hURr!G@1  
=qG@2@G@1(G@25(J^G@"333333tr!(hURr!G@2333333G@2W  
=pG@1zGG@1(J^LvG@!tr!(hURr!G@2G@2QG@1ffffG@2RJ7G@"(tr!(hURr!G@2G@3LG@2(G@2QJ\_G  
@"Qtr!(hURr!G@2ffffG@3#  
=pG@2fffffG@2fffffJ]G@"ffffftr!(hURr!G@2p  
=qG@2zGG@1zGG@1zGJ G@!Rtr!(hURr!G@1p  
=G@2.zGG@1GzHG@1zGJG@!Rtr!(hURr!G@1G{G@2G@1ffffG@2J(4vG@"=p  
tr!(hU Rr!G@2G@3zGG@2.zGG@2@JG@"=p  
=tr!(hU Rr!G@2=p  
=G@233333G@2QG@2J@7G@"=p

tr!(hU Rr!G@2fffffG@2zGG@1fffffG@1QJG@!Qtr!(hU Rr!G@1G@2G@1333333G@1GzHJG@!GzHtr!(hU  
Rr!G@1G@1G@0QG@1^QJNG@!aGztr!(hU Rr!G@0G@1RG@/u\G@0p  
=JG@ G{tr!(hU Rr!G@0fffffG@1QG@0+QG@0GzHJAG@ GzHtr!(hU  
Rr!G@0G@1G@/333333G@1QJ@qG@!Qtr!(hU Rr!G@0J=p  
G@033333G@/G@/\JG@/\tr!(hU Rr!G@-G@0@G@-\G@/u\J06G@p  
=qtr!(hU Rr!G@0\G@0  
=pG@/fffffG@0s33333JG@ u\tr!(hU Rr!G@0#  
=pG@08QG@.33333G@/zGJG@zGtr!(hU Rr!G@/QG@/zHG@-\G@.LJ  
G@GzHtr!(hU Rr!G@.G@/G@.fffffG@/QJxG@  
=p  
tr!(hU Rr!G@/kQG@/RG@.zHG@/QJG@  
=p  
tr!(hU  
Rr!G@.G{G@/G{G@.u\G@/zGJvqG@zGtr!(hU  
Rr!G@.\G@/\G@-\G@.JG@Qtr!(hU  
Rr!G@-fffffG@.QG@-\G@-\J:tG@\tr!(hU  
Rr!G@.33333G@0@G@-G{G@/\J(G@\tr!(hU  
Rr!G@.G@0&fffffG@-G{G@0#  
=pJG@ #  
=ptr!(hU  
Rr!G@/#  
=pG@0YG@/G@0333333JWqG@ 333333tr!(hU  
Rr!G@0G@0333333G@/B\G@0J ^G@ tr!(hU  
  
Rr!G@0G@0G@/fffffG@0RJ(G@ Rtr!(hU  
Rr!G@0QG@1p  
=G@0G@1p  
=JG@!p  
=tr!(hU  
Rr!G@1O\G@2zGG@0\G@2\JXG@"Qtr!(hU  
Rr!G@133333G@2aGzG@133333G@1p  
=JG@!G{tr!(hU  
Rr!G@2  
=pG@2333333G@1QG@2\JHnG@"Qtr!(hU  
Rr!G@2W  
=pG@2h)G@0\G@0p  
=J(G@ G{tr!(hU  
Rr!G@1J=p  
G@2:G{G@1J=p  
G@2J`MG@"tr!(hU  
Rr!G@1  
=qG@2fffffG@1GzG@2LJZG@"Ltr!(hU  
Rr!G@25\G@3RG@2  
=pG@3QJG@#Qtr!(hU  
Rr!G@3QG@3kQG@1QG@2#  
=pJHuG@"#  
=ptr!(hU  
Rr!G@2\G@3

=pG@1G@233333JG@"\tr!(hU  
Rr!G@2p  
=qG@3@G@2(\)G@30  
=qJG@#333333tr!(hU  
Rr!G@2(\G@3@G@2QG@2QJG@"zGtr!(hU  
Rr!G@2RG@2QG@1G@1GzJWG@!Qtr!(hU  
Rr!G@1aGzG@2G@1(\G@1JG@!tr!(hU  
Rr!G@1G{G@2fffffG@1p  
=qG@1(J.G@!\tr!(hURr!G@1ffffG@2zHG@1@G@2  
=pJG@"tr!(hURr!G@2QG@2(\G@2(\)G@2RJwkG@"\tr!(hURr!G@2  
=pG@3@G@2(\G@3RJPG@#\tr!(hURr!G@2(\G@3QG@2zHG@3RJ7G@#\tr!(hURr!G@3u(\G@4!GzG@3Tz  
GG@3  
=pJxG@#tr!(hURr!G@3GzG@3  
=pG@2RG@2(\JtG@"333333tr!(hU  
Rr!G@2G@3@G@2G@2(J/IG@"333333tr!(hURr"G@2)G@3+QG@1(\G@2JmG@"\tr"(hU  
Rr"G@3zGG@3c  
=pG@2(\G@3^QJozG@#aGztr"(hURr"G@3  
=pG@3fffffG@3&fffffG@3(\JXxG@#Qtr"(hURr"G@3s33333G@3fffffG@3:G{G@3s33333JtG@#\tr"(hURr"G  
@3EQG@3J=p  
G@2fffffG@2QJ}G@"\tr "(hURr  
"G@3G@4G@2(\G@4J8?G@\$tr"(hURr"G@3RG@4333333G@3G@3zHJG@#=#p  
tr  
"(hURr"G@3(\G@3G@3B(\G@3zGJmG@#zGtr"(hURr"G@3(\G@333333G@3RG@3  
=pJ G@#  
=ptr"(hURr"G@3  
=qG@5G@3GzG@5^QJPG@%aGztr"(hURr"G@5333333G@5QG@4G@5JYG@%tr"(hURr"G@4G@55(\G@4h  
\G@4zHJG@\$=p  
tr"(hURr"G@4G@433333G@40  
=qG@4kQJnG@\$kQtr"(hURr"G@4xQG@5p  
=qG@4@G@5LJpG@%Ltr"(hURr"G@5(\G@5GzHG@4G@5J8bG@%  
=p  
tr"(hURr"G@5G@6(\G@4QG@6fffffJOG@&ffffftr"(hURr  
"G@6(\G@8zHG@6+QG@7(J5G@%\tr!"(hURr""G@7zG{G@7G@6#  
=pG@6zHJ}G@&zHtr#"(hURr"\$G@6u(\G@6(\G@6G@6=p  
J0nG@&=p  
tr%"(hU  
Rr&"G@6J=p  
G@6p  
=G@6:G{G@6=p  
J\G@&=p  
tr"(hURr("G@6QG@6G@5fffffG@5zHJoG@%zHtr)"(hURr\*"G@5QG@5QG@5@G@5}p  
=JhG@%zG{tr+"(hU  
Rr,"G@5}p  
=G@5G@4G@5JkG@%tr-"(hURr."G@4G{G@4zGG@4  
=pG@4c  
=pJzgG@\$aGztr/"(hURr0"G@4fffffG@5G@40  
=qG@4QJ^G@\$Qtr1"(hURr2"G@4  
=pG@5TzGG@48QG@5(J1G@%Qtr3"(hURr4"G@4zGG@5zGG@4xQG@5QJG@%Qtr5"(hURr6"G@5fffffG



@5xQG@4QG@4QJ\xG@\$zGtr7"(hURr8"G@5)(G@5=p  
G@4G@5JG@%tr9"(hURr:"G@4ffffG@5s33333G@4ffffG@5(\JHG@%\(\tr;"(hURr<"G@5YG@6LG@5#  
=pG@5}p  
=J8OG@%zG{tr="(hURr>"G@5zGG@6@G@5zGG@6RJ0]hG@&(\tr?"(hURr@"G@5QG@7G@5(\G@6nzGJx  
G@&p  
=qtrA"(hURrB"G@6(G@6)G@5zGG@5ffffJKG@%fffftrC"(hURrD"G@6G@7LG@5(\G@7LJ  
G@'LtrE"(hURrF"G@7G@7G@6QG@7zGJxMG@'zGtrG"(hURrH"G@7W  
=pG@733333G@6p  
=G@7  
=qJPKG@'33333trI"(hURrJ"G@7QG@8G@6G@6ffffJpGG@&fffftrK"(hURrL"G@6G@7G@6u(\G@6(\J'@G  
@&QtrM"(hURrN"G@6G@6zGG@5GzHG@5ffffJG@%  
=ptrO"(hU  
RrP"G@58QG@5u(\G@4@G@5:G{JG@%8QtrQ"(hURrR"G@5c  
=pG@5  
=pG@4G@5JG@%  
=p  
trS"(hURrT"G@5(\G@5ffffG@4ffffG@5ffffJ(G@%#  
=ptrU"(hURrV"G@5QRG@5(\G@55(\G@533333JX6G@%33333trW"(hURrX"G@5h)G@5h)G@4G@4zHJ4G  
@\$zHtrY"(hURrZ"G@5(\G@6p  
=G@5QG@6zG{J@gG@&zG{tr["(hURr"G@6G@6G@5(\G@6+QJ0G@&.zGtr]"(hURr^"G@6EQG@6^QG@5  
RG@5RJH\_G@%Rtr\_"(hURr`"G@5G@7  
=p  
G@5  
=pG@7QJhG@'Qtra"(hURrb"G@6)G@7(\G@6ffffG@75(\JhwG@'33333trc"(hURrd"G@6  
=pG@7kQG@6)G@7@JPeG@'=p  
=tre"(hURrf"G@7ffffG@7G@6QG@7EQJeG@'GzHtrg"(hURrh"G@78QG@7=p  
G@6G@7RJXG@'\(tri"(hURrj"G@7RG@8#  
=pG@6  
=qG@8  
=pJG@(trk"(hURrl"G@8(\)G@8G{G@8(\G@8QJXHG@(Qtrm"(hURrn"G@8W  
=pG@8(\G@8W  
=pG@8h)J0G@(\fffftro"(hURrp"G@8QRG@9QG@8333333G@9YJG@)\(\trq"(hURrr"G@9  
=pG@9G{G@9zGG@9s33333JG@)u(\trs"(hURrt"G@9G@9G{G@8&ffffG@8QJ0EG@(zGtru"(hURrv"G@8fff  
ffG@9J=p  
G@8zGG@8LJG@(Ltrw"(hURrx"G@8ffffG@8  
=pG@7^QG@8zHJG@(  
=p  
try"(hURrz"G@7zGG@9G@7p  
=G@8G{J8G@(G{tr{"(hURr|"G@8)G@9  
=p  
G@8s33333G@8(\J9zG@(33333tr}"(hU  
Rr~"G@8G{G@9=p  
=G@8ffffG@9(\JpG@)Qtr"(hURr"G@9G@9:G{G@8aGzG@8JG@(\tr"(hURr"G@8zHG@8G{G@7G@7ffffJp  
G@'fffftr"(hURr"G@7(\G@7QG@6zG{G@6QJG@&Qtr"(hURr"G@6QG@7333333G@6YG@7!GzJG@'Qtr"(h  
URr"G@6QG@7G@5s33333G@5JuG@%tr"(hURr"G@5)G@633333G@5G@6p  
=JG@&p  
=tr"(hURr"G@6G@8QG@6(\G@7(\J8G@'tr"(hURr"G@7)G@8^QG@7@G@7QJG@'zGtr"(hURr"G@7  
=qG@8@G@4

=qG@5\(\Jhd1G@%\(\tr"(hURr"G@6&ffffG@6  
=pG@5YG@533333JG@%33333tr"(hURr"G@5zGG@7G@5RG@7s33333J/G@'\(\tr"(hURr"G@7B\(\G@8zGG  
@6\(\G@8J=p  
J(G@(\tr"(hURr"G@8&ffffG@8nzGG@7ffffG@7zHJpG@'=p  
tr"(hURr"G@7zG{G@8W  
=pG@6zGG@8RJE{G@(\tr"(hURr"G@8\(\G@8zHG@7\(\G@8aGzJ G@(aGztr"(hURr"G@8p  
=G@9  
=pG@8LG@8\)\JG@(\tr"(hURr"G@8G@9#  
=pG@8G@9\(\J4G@)\(\tr"(hURr"G@8\(\G@8p  
=G@8G@8QJrG@(Qtr"(hU  
Rr"G@8^QG@8G@8&ffffG@8}p  
=JhmG@(zG{tr"(hURr"G@8LG@8G@7QG@8nzGJjvG@(p  
=qtr"(hURr"G@8u\(\G@8\(\G@8@G@833333JGG@(\tr"(hURr"G@833333G@9G@8QRG@8p  
=JHG@(p  
=tr"(hURr"G@8  
=qG@9LG@8LG@8J`G@(\tr"(hURr"G@8\)\G@9#  
=pG@8G@8QJ(dG@(Qtr"(hURr"G@7\(\G@8LG@7B\(\G@8EQJOG@(GzHtr"(hURr"G@88QG@8\(\G@7QG@8  
=pJ/nG@(tr"(hURr"G@8RG@8  
=pG@7=p  
=G@7YJ0;G@'\(\tr"(hURr"G@7333333G@7  
=pG@7G@7u\(\JG@'\u\(\tr"(hURr"G@7YG@7QG@7B\(\G@7xQJEG@'\u\(\tr"(hURr"G@733333G@7GzG@7u\(\G  
@7QJx;G@'zGtr"(hURr"G@7aGzG@833333G@7GzHG@8u\(\JxIG@(\u\(\tr"(hURr"G@8G@8LG@7QG@8RJ@o  
G@(\tr"(hURr"G@8G@8}p  
=G@7G@7JtG@'\(\tr"(hURr"G@7QG@9G@7QG@8ffffJpwG@(fffftr"(hURr"G@833333G@90  
=qG@8G@8p  
=JG@(p  
=tr"(hURr"G@8\)\G@8zGG@7zHG@8\(\JG@(\tr"(hU Rr"G@8  
=pG@9G@8\(\G@8JP`hG@(tr"(hU  
Rr"G@85\(\G@833333G@8\(\G@8\)\JzG@(\tr"(hURr"G@9zHG@9333333G@8G@8\(\JG@(\tr"(hURr"G@9\(\G  
@9+QG@8RG@9\(\JG@)\(\tr"(hURr"G@9\(\G@9&ffffG@8G@9J\$G@)tr"(hURr"G@9&ffffG@9p  
=G@9QG@9p  
=JNG@)p  
=tr"(hURr"G@9zGG@:+QG@9aGzG@:(\JxG@\*Qtr"(hURr"G@9G@9QG@8GzG@9h\)\JOG@)fffftr"(hURr"G  
@9}p  
=G@9}p  
=G@8zGG@8G{JG@(G{tr"(hURr"G@8  
=pG@8zGG@8:G{G@8zHJG@=(p  
tr"(hURr"G@8=p  
G@8zHG@8  
=pG@8@J;G@=(p  
=tr"(hURr"G@8LG@8G@7zGG@7QJLG@'zHtr"(hURr"G@7\(\G@8W  
=pG@7G@8QJiG@(Qtr"(hURr"G@8GzHG@8^QG@7G@7\(\J3G@'Qtr"(hURr"G@7\)\G@8\(\G@7  
=pG@7\(\JbG@'\(\tr"(hURr"G@7  
=pG@8aGzG@7G@8EQJG@(GzHtr"(hURr"G@8J=p  
G@8J=p  
G@7\(\G@7G{J uG@'G{tr"(hURr"G@7\(\G@8W  
=pG@7G@7  
=qJnG@'33333tr"(hURr"G@7RG@8QG@7nzGG@7\(\J}G@'Qtr"(hURr"G@7YG@7G@6u\(\G@6ffffJxG@&

=ptr"(hURr"G@6  
=qG@633333G@6#  
=pG@6xQJIG@&u)(tr"(hURr"G@7333333G@8QG@7  
=p  
G@8^QJG@(aGztr"(hU Rr"G@8@G@8YG@7G@80  
=qJgzG@(333333tr"(hU  
Rr"G@8J=p  
G@8J=p  
G@6G{G@7QRJGG@'QRtr"(hU  
Rr"G@7QG@8  
=pG@6  
=qG@7  
=qJG@'  
=qtr"(hURr"G@8s33333G@9zGG@88QG@9(\JXG@)Qtr"(hURr"G@9^QG@9G{G@8  
=pG@9GzHJG@)GzHtr"(hURr"G@9(\G@9s33333G@8G@95(J{G@)333333tr"(hURr#G@9)p  
=G@9zHG@8(\G@9(JG@)Qtr#(hURr#G@8RG@8zGG@8zHG@8p  
=JxG@(p  
=tr#(hURr#G@8zGG@9G@7fffffG@7u)(J  
G@'u)(tr#(hURr#G@7^QG@8^QG@7QRG@8QRJG@(QRtr#(hURr#G@8s33333G@9=p  
=G@8RG@9.zGJ`NG@).zGtr #(hURr  
#G@8p  
=G@8p  
=G@7(G@8&fffffJZG@(#  
=ptr#(hURr#G@7  
=qG@8333333G@7nzGG@7G{JQG@'G{tr  
#(hURr#G@7QG@8p  
=qG@7s33333G@7G{J0xG@'G{tr#(hURr#G@7QG@8aGzG@7(\G@8333333JkG@(333333tr#(hURr#G@8  
=pG@8@G@7GzHG@7LJ-G@'Ltr#(hURr#G@7c  
=pG@7s33333G@6zGG@6)J G@&ffffftr#(hURr#G@6GzG@7  
=p  
G@6.zGG@6zHJ8G@&zHtr#(hURr#G@6zGG@6zGG@6YG@6QJxG@&Qtr#(hURr#G@6(\G@7:G{G@6  
=p  
G@6(\)JG@&(\)tr#(hURr#G@5(\G@5  
=qG@4zGG@5fffffJMG@%ffffftr#(hU  
Rr#G@5zG{G@5  
=pG@5W  
=pG@5zG{J8DG@%zG{tr#(hURr #G@5  
=pG@533333G@4h)G@4u(JuG@\$u(tr!#(hURr"#G@4h)G@4G@3  
=qG@4  
=pJ G@\$tr##(hU  
Rr#\$G@4QG@4G@3aGzG@3=p  
JG@#=p  
tr%#(hURr&#G@3=p  
=G@4(\G@2(\G@4JXG@\$tr'#(hURr(#G@4=p  
=G@4GzG@3G@4=p  
JG@\$=p  
tr#(hURr\*#G@4kQG@4  
=pG@3G{G@4&fffffJG@\$#

=ptr+#(hURr,#G@1^QG@1G@0GzG@1QJG@!Qtr-  
#(hURr.#G@1+QG@1G@0G@1(\J`&G@!Qtr/#(hURr0#G@0QG@1}p  
=G@0=p  
G@0J@G@  
(\tr1#(hURr2#G@0QG@1G{G@033333G@1EQJbG@!GzHtr3#(hURr4#G@1fffffG@1zGG@0(\G@1#  
=pJP\$G@!#  
=ptr5#(hURr6#G@0G@1J=p  
G@^(G@0J0G@ =p  
tr7#(hURr8#G@0=p  
G@1EQG@0kQG@1(\J\$G@!(\tr9#(hURr:#G@1G@1RG@1G@1QJG@!Qtr;#(hURr<#G@1(\G@1GzG@1G@1\  
(J0[yG@!(\tr=#(hURr>#G@1zHG@1(\)G@0zGG@0  
=qJPG@  
=qtr?#(hURr@#G@0(\G@1zGG@0G@1JhvlG@!=p  
trA#(hURrB#G@1(\G@2G@1(\G@2p  
=JXG@"p  
=trC#(hURrD#G@2QG@2(\G@1zGG@2(\JsG@"QtrE#(hU RrF#G@2  
=pG@2J=p  
G@1u(\G@1zHJ{G@!=p  
trG#(hU  
RrH#G@1(\G@2+QG@1@G@1QRJpG@!QRtrI#(hURrJ#G@1B(\G@2YG@0QG@2LJ@G@"LtrK#(hURrL#G  
@2G@2=p  
G@1B(\G@1(\JG@!QtrM#(hURrN#G@1nzGG@2G@0(\G@2:G{JMG@"8QtrO#(hURrP#G@2&fffffG@2RG@  
1(\G@1(\J xG@!(\trQ#(hURrR#G@0!GzG@0333333G@.aGzG@/B(\JcG@GzHtrS#(hURrT#G@/G@/QG@-  
G@-G{J0G@(\trU#(hURrV#G@-fffffG@.W  
=pG@-(\G@-QJG@QtrW#(hURrX#G@-G@.aGzG@-8QG@-  
=pJG@  
=ptrY#(hURrZ#G@-G@.B(\G@,GzG@,  
=qJHG@(\tr[#(hURr#G@,)\G@.p  
=qG@,G@.fffffJpG@ffffftr]#(hURr^#G@-(\G@-fffffG@,QG@,QJ8:G@Qtr\_#(hURr`#G@,QG@-  
(\G@+G@,zGJ0qG@zGtra#(hURrb#G@,(\G@.333333G@,p  
=G@.  
=p  
J G@  
=p  
trc#(hURrd#G@-33333G@/QG@-QG@.(J \_G@Gztre#(hURrf#G@.G@.  
=pG@-G@.QJPQG@Qtrg#(hURrh#G@.8QG@.  
=pG@-u(\G@-Jh|G@tri#(hURrj#G@-zG{G@.G@,G@,ffffJxaG@Gztrk#(hURrl#G@-QG@-fffffG@+  
=qG@+G{JH/oG@(\trm#(hURrn#G@,kQG@.u(\G@,(\)G@-  
zG{JAG@zG{tro#(hURrp#G@..zGG@.QG@,33333G@.(\JG@  
=p  
trq#(hURrr#G@-p  
G@.\(\G@-p  
G@.J0{G@trs#(hU Rrt#G@.G@.G@-G@.J8pG@tru#(hURrv#G@-G@.  
=p  
G@-aGzG@-G{JaG@(\trw#(hU  
Rrx#G@-G@.kQG@-G@-.zGJ8G@333333try#(hURrz#G@-W  
=pG@.33333G@-zGG@.W  
=pJ{G@(\tr{#(hURr#G@.G@/G@.QG@/8QJG@333333tr}#(hURr~#G@.fffffG@0G@.(\G@/QJG@

=ptr#(hURr#G@/\(G@0@G@/p  
=qG@/\(JvG@\(\tr#(hURr#G@/  
=qG@0  
=pG@/\(G@/RJeG@tr#(hURr#G@0\G@0=p  
=G@.ffffG@0QJPnG@ Qtr#(hURr#G@0333333G@0@G@/QRG@/  
=qJG@/\(\tr#(hURr#G@/G@/\(G@.ffffG@/u\J8XG@p  
=qtr#(hURr#G@/ffffG@/ffffG@.QRG@/\(JXgG@  
=p  
tr#(hURr#G@/kQG@/zG{G@-kQG@-33333JG@Qtr#(hURr#G@-G@.=p  
=G@-LG@-fffffJ"G@ffffftr#(hURr#G@-LG@.\)G@-QG@-fffffJ wYG@ffffftr#(hURr#G@-u\G@.GzHG@-  
()\G@-JuiG@Qtr#(hU Rr#G@,G{G@-G@,G@,J(G@Qtr#(hU Rr#G@,fffffG@-\(G@,W  
=pG@,\(J=G@(\tr#(hU Rr#G@,p  
=qG@,QG@,G@,\(JA{G@(\tr#(hU Rr#G@-QG@-LG@,u\G@,\(JbG@(\tr#(hU Rr#G@,\(G@-\(G@,LG@,p  
=J<VG@Qtr#(hU  
Rr#G@,RG@,G{G@,=p  
=G@,\)J G@  
=ptr#(hU Rr#G@,zGG@-333333G@,LG@,zGJHNnG@(\tr#(hU Rr#G@,fffffG@-QG@,=p  
=G@,GzHJG@GzHtr#(hU  
Rr#G@,B\G@,zGG@,G@,W  
=pJ82G@(\tr#(hU Rr#G@,GzHG@-8QG@,=p  
=G@-J5G@tr#(hU Rr#G@-#  
=pG@.\(G@-#  
=pG@-J=G@tr#(hU Rr#G@-aGzG@..zGG@-  
=p  
G@.  
=p  
JpG@  
=p  
tr#(hU Rr#G@-G@-G@,\(G@-\()J@;pG@(\tr#(hU Rr#G@-p  
=G@-GzG@-  
=p  
G@-p  
=J0AG@Qtr#(hU Rr#G@-QG@-QG@,fffffG@-33333JG@Qtr#(hU Rr#G@,G@-  
=pG@,G@-GzHJG@GzHtr#(hU Rr#G@-aGzG@.W  
=pG@-LG@-\(JxG@Gztr#(hU Rr#G@.333333G@.aGzG@-G@-fffffJqG@ffffftr#(hU Rr#G@,G{G@-  
33333G@,\(G@-p  
=qJ(XpG@p  
=qtr#(hU Rr#G@,G@-#  
=pG@,GzHG@-JG@tr#(hU  
Rr#G@-.zGG@-333333G@,G@-QJG@  
=p  
tr#(hU  
Rr#G@,\)G@-B\G@,333333G@,W  
=pJIG@(\tr#(hU  
Rr#G@,\(G@-333333G@,QG@,JpvG@tr#(hU  
Rr#G@,QG@,G@+G{G@,\(JgG@  
=p  
tr#(hU

Rr#G@+  
=qG@,kQG@+QG@+=p  
JYG@(\tr#(hU  
Rr#G@+G@+QG@\*QG@+(\J7G@(\tr#(hU  
Rr#G@+zGG@+33333G@\*RG@+.zGJ`G@33333tr#(hU  
  
Rr#G@+B\G@,p  
=qG@+(\)G@,8QJ>G@33333tr#(hU  
Rr#G@,G@-\(G@,33333G@-QJ(G@  
=p  
tr#(hU  
Rr#G@-G@-\(G@,GzG@-=p  
JiG@(\tr#(hU  
Rr#G@.p  
=qG@.G@-\(G@.QRJpG@QRtr#(hU  
Rr#G@-QG@.B\G@+G@-QJhG@Qtr#(hU  
Rr#G@,kQG@,\(G@+(\)G@,8QJG@33333tr#(hU  
Rr#G@,G@,33333G@+(\)G@,zGJPG@zGtr#(hU  
Rr#G@,QG@-B\G@,G@-QJG@Qtr#(hU  
Rr#G@,  
=qG@-\(G@,QG@-fffffJvG@ffffftr#(hU  
Rr#G@-B\G@-\(G@-G@-\(JqG@(\tr#(hU  
Rr#G@.  
=p  
G@.kQG@-G@-aGzJ:\_G@(\tr#(hU  
Rr#G@-aGzG@.fffffG@-.zGG@.  
=pJG@  
=ptr#(hU  
Rr#G@/G@/fffffG@.G@/8QJxZG@33333tr#(hU  
Rr#G@/#  
=pG@/\(G@-QG@.GzJ=G@Gztr#(hU  
Rr#G@.G{G@0^QG@.\(G@/\(JG@(\tr#(hU  
Rr#G@/G{G@0p  
=qG@/  
=pG@0RJ7G@ \(\tr#(hURr#G@/GzG@0G@/zHG@0\(\JrgG@ \(\tr#(hURr#G@0G@1aGzG@0YG@0  
=pJYG@ Gztr#(hURr#G@0G@0\G@0YG@0fffffJrG@  
ffffftr#(hURr#G@1zGG@1QRG@033333G@18QJHuG@!8Qtr#(hURr#G@0  
=qG@1G@/QG@0J4G@ tr#(hURr#G@0\G@0333333G@/  
=p  
G@/zGJgG@zGtr#(hURr#G@/zG{G@/zHG@.=p  
=G@.QRJh]SG@QRtr#(hURr#G@.  
=pG@0  
=p  
G@.\(G@/GzHJyG@GzHtr#(hU  
Rr#G@/G@0RG@.\(G@/.zGJI~G@33333tr#(hURr#G@/G@0h\G@/\(G@0LJP:MG@  
Ltr#(hURr#G@0:G{G@0=p  
=G@/QG@/fffffJ(WG@Gztr#(hURr\$G@00  
=qG@0333333G@/

=p  
G@/LJ(YG@GzHtr\$(hURr\$G@/G@/G@.QG@.=p  
JrG@\tr\$(hURr\$G@.G@/fffffG@.G@/(JqG@  
=p  
tr\$(hURr\$G@/G@0p  
=qG@/G@0YJG@ \(\tr\$(hURr\$G@0  
=pG@0LG@/G@0\|JH,|G@ Qtr \$(hURr  
\$G@0zHG@0#  
=pG@/kQG@/  
=qJIG@\tr\$(hURr\$G@/33333G@/G@.=p  
G@.RJG@tr  
\$(hURr\$G@/33333G@/QG@.fffffG@/p  
=qJJG@p  
=qtr\$(hURr\$G@/zGG@\G@.RG@/J(\*NG@tr\$(hURr\$G@/G@0G@.QG@.\(\J  
LG@\tr\$(hURr\$G@.fffffG@.zGG@.33333G@.QRJ-|G@QRtr\$(hURr\$G@.\(\G@.aGzG@-G@-  
=qJG@\tr\$(hURr\$G@.\(\G@.\)G@-\(\G@-B\|J@G@GzHtr\$(hURr\$G@-LG@.aGzG@-  
=p  
G@-fffffJG@Gztr\$(hU Rr\$G@-GzG@-fffffG@-W  
=pG@-JG@Qtr\$(hU  
Rr\$G@-G@.fffffG@-u\(\G@.\|J-G@\tr\$(hURr  
\$G@.G@.G{G@.\)G@.G{J%G@\tr!\$(hURr"\$G@/QG@/G@.QG@.aGzJ`bQG@\tr#\$(hU  
Rr\$G@.GzHG@.LG@-LG@-zGJHYG@\tr%\$(hURr&\$G@-QG@.33333G@-8QG@-  
33333JG@Qtr\$(hURr(\$G@-33333G@.aGzG@-QRG@.\)JHWyG@(\tr)\$(hURr\*\$G@-G@-QG@-G@-#  
=pJ8 RG@Qtr+\$(hURr,\$G@-\(\G@-  
=pG@,33333G@,fffffJbG@ffffftr-\$(hURr.\$G@,zGG@-  
QG@+\(\G@,GzHJXYG@GzHtr/\$(hURr0\$G@,QRG@-G@,=p  
=G@,G{JDG@\tr1\$(hURr2\$G@,GzG@,  
=qG@,G@,QJHpG@Qtr3\$(hURr4\$G@,  
=pG@-QG@,\(\G@,J0.G@tr5\$(hURr6\$G@,QG@,\(\G@,QG@,QJ+G@Qtr7\$(hURr8\$G@,\)G@,LG@+zGG@,#  
=pJ}TG@Qtr9\$(hURr:\$G@,G@,QG@+fffffG@,\)J cmG@  
=ptr;\$hURr<\$G@,QG@-  
=pG@,33333G@-JbG@tr=\$(hURr>\$G@-G@-\(\G@-.zGG@-J[PG@tr?\$(hURr@\$G@.\(\G@.\(\G@-\(\G@-  
JG@trA\$(hURrB\$G@-zGG@.G@,  
=qG@-33333J(G@QtrC\$(hURrD\$G@-\)G@-kQG@,GzG@-J% }G@QtrE\$(hU RrF\$G@-p  
=G@-  
=pG@-G@-\(\JMuG@\trG\$(hU  
RrH\$G@-\)G@-  
=pG@,G{G@-p  
=qJ l\_G@p  
=qtrI\$(hU  
RrJ\$G@-G@-G@,QG@-B\|JaG@GzHtrK\$(hURrL\$G@-aGzG@-  
=pG@,G{G@-8QJeG@333333trM\$(hURrN\$G@-.zGG@-fffffG@,QG@,\|J?G@GztrOS\$(hURrP\$G@,kQG@-  
QG@,kQG@-p  
=JP0G@=p  
=trQ\$(hURrR\$G@-QG@-QG@,\)G@,333333J\_G@333333trS\$(hURrT\$G@,kQG@,RG@,G@,  
=p  
JG@  
=p

trU\$(hURrV\$G@+\(G@,LG@+G@+\(J>uG@\(\trW\$(hURrX\$G@,G@,QG@+ffffG@,W  
=pJc|G@\(\trY\$(hURrZ\$G@,zG{G@,zG{G@+QG@+JwG@tr[(hURr\)\$G@+\(G@-  
G@+LG@,B\(\JLG@GzHtr)\$\hURr^\$G@,zG{G@-aGzG@,QRG@-()\J(G@()\tr\_\$(hURr`\$G@-  
G@.333333G@,G@-\(JJG@Gztra\$(hURrb\$G@-\(G@.#  
=pG@,zGG@,  
=pJHG@  
=ptrc\$(hURrd\$G@,aGzG@-G@,G@,QJG@Qtre\$(hURrf\$G@,RG@-RG@,333333G@-  
QRJKG@QRtrg\$(hURrh\$G@,ffffG@-LG@,QG@-333333JG@333333tri\$(hURrj\$G@-kQG@-  
(\G@,GzG@,ffffJ0xG@Gztrk\$(hURrl\$G@,QG@-.zGG@,p  
=qG@,(\JaG@Gztrm\$(hURrn\$G@-G@-333333G@,#  
=pG@,LJG@GzHtro\$(hU  
Rrp\$G@,QG@-#  
=pG@,QG@,333333J)[G@Qtrq\$(hURrr\$G@-G@-B\(\G@,ffffG@,333333JHYG@Qtrs\$(hURrt\$G@,-p  
G@-333333G@,=p  
G@,zHJ|G@tru\$(hU  
Rrv\$G@,RG@-GzHG@,zG{G@-zGJqG@zGtrw\$(hURrx\$G@-8QG@-p  
=qG@,333333G@-W  
=pJ0G@\(\try\$(hURrz\$G@-G@.G@-p  
=qG@.=p  
JG@\(\tr{\$(hURr|\$G@.#  
=pG@.LG@-\(G@-333333JG@Qtr)\$\hURr~\$G@-333333G@-QG@-kQG@=-p  
J8CzG@\(\tr\$(hURr\$G@-  
=pG@.QG@-LG@.JUG@tr\$(hURr\$G@-QG@.\(G@+G@-zG{J:bG@zG{tr\$(hURr\$G@-\(G@.()\G@-()\G@.  
=p  
J0fG@  
=p  
tr\$(hURr\$G@-G{G@.  
=p  
G@,\(G@-JNvG@tr\$(hURr\$G@-#  
=pG@.G@-QG@-QJTG@Qtr\$(hURr\$G@-QG@..zGG@=-p  
G@.QJQjG@  
=p  
tr\$(hURr\$G@.QG@.QRG@-G@-LJ  
oG@GzHtr\$(hURr\$G@-zG{G@-QG@,GzG@-QJDG@Qtr\$(hURr\$G@-8QG@-G@-  
=p  
G@=-p  
=Jp EG@=p  
=tr\$(hURr\$G@-()\G@-333333G@,G@-QJ@k6G@Qtr\$(hURr\$G@,  
=qG@-kQG@,QG@-\(JmG@  
=p  
tr\$(hU  
Rr\$G@-QG@-W  
=pG@,G@,p  
=J8VIG@Qtr\$(hURr\$G@,QG@,G{G@,=p  
=G@,u\(\JWG@p  
=qtr\$(hURr\$G@,W  
=pG@,zHG@,QG@,p  
=qJ8IyG@p



=qtr\$(hU  
Rr\$G@,  
=qG@-G@,W  
=pG@-p  
=qJG@p  
=qtr\$(hURr\$G@-\(\G@.QG@-GzHG@-\(JnSG@-\(tr\$(hURr\$G@-zHG@.#  
=pG@-kQG@.QJhG@  
=p  
tr\$(hURr\$G@.G@..zGG@-  
=pG@.JT}G@tr\$(hURr\$G@.#  
=pG@.LG@-zGG@-ffffJMG@Gztr\$(hURr\$G@-\(\G@-G{G@-33333G@-RJXG@tr\$(hURr\$G@..zGG@.LG@-  
=pG@.Jh^G@tr\$(hURr\$G@-W  
=pG@-G@,33333G@,p  
=JWG@Qtr\$(hURr\$G@,RG@-\)G@,p  
=G@-Jpc[G@Qtr\$(hURr\$G@-G@-QG@,G@,RJx0aG@tr\$(hURr\$G@,  
=pG@-fffffG@,  
=pG@,G{JBG@-\(tr\$(hURr\$G@,G@-=-p  
=G@,p  
=G@-#  
=pJ/OG@Qtr\$(hURr\$G@,\)G@-\(G@,zGG@,GzHJ@G@GzHtr\$(hURr\$G@,fffffG@,QG@,#  
=pG@,QRJTG@QRtr\$(hURr\$G@,QG@-aGzG@,=p  
G@-33333Jc]G@33333tr\$(hURr\$G@-QG@-fffffG@,33333G@,QJ hOG@Qtr\$(hURr\$G@-  
=p  
G@-W  
=pG@,zHG@,RJOg@tr\$(hURr\$G@-33333G@-fffffG@,RG@,G{JHkG@-\(tr\$(hURr\$G@-QG@-  
LG@,QG@,ffffJCFG@Gztr\$(hU Rr\$G@-  
=p  
G@=-p  
=G@,GzHG@,aGzJOG@-\(tr\$(hU  
Rr\$G@,fffffG@,zHG@,fffffG@,p  
=Jh]:G@Qtr\$(hURr\$G@,G@,GzG@)\(G@\*fffffJPG@ffffftr\$(hURr\$G@+kQG@+G@+G@+(\)JOG@(\)tr\$(hU  
Rr\$G@+.zGG@+33333G@\*G@\*zHJ@G@tr\$(hURr\$G@)G{G@+W  
=pG@)  
=pG@\*zG{J}G@zG{tr\$(hURr\$G@\*fffffG@\*G@)p  
=qG@\*=-p  
=JpOG@=p  
=tr\$(hURr\$G@\*B\(\G@\*aGzG@)\(G@\*GzHJSG@GzHtr\$(hURr\$G@\*\(\G@+=p  
=G@\*.zGG@+QJG@  
=p  
tr\$(hURr\$G@+(\G@+B\(\G@\*QG@+(\)JXDrG@(\)tr\$(hURr\$G@+  
=p  
G@+8QG@\*G@\*GzJx+G@Gztr\$(hURr\$G@\*QG@+(\)G@\*u\(\G@\*33333JoG@Qtr\$(hURr\$G@\*\(\G@+QG@\*  
(\G@+QJ[G@Qtr\$(hURr\$G@+(\G@,QRG@+(\)G@,QJ G@Qtr\$(hURr\$G@+(\G@,33333G@+33333G@,p  
=qJG@p  
=qtr\$(hURr\$G@,G@,zHG@,G@,QJG@Qtr\$(hURr\$G@,QG@-.zGG@,zGG@,ffffJG@Gztr\$(hURr\$G@=-p  
G@0GzG@-G@0  
=pJ(OG@ tr\$(hURr\$G@0QG@1fffffG@0G@1J(U9G@!tr\$(hURr\$G@1TzGG@2=p  
=G@1\(\G@1fffffJP>G@!

=ptr\$(hURr\$G@133333G@2RG@1J=p  
G@2JPvG@"tr\$(hU Rr\$G@2TzGG@2fffffG@1GzG@2LJ(@G@"Ltr\$(hURr\$G@2&fffffG@2p  
=G@2!GzG@2(J@G@"\tr\$(hU  
Rr\$G@2nzGG@2QG@133333G@2QJ|G@"zGtr\$(hURr\$G@2zGG@2  
=pG@2nzGG@2JG@"=p  
tr\$(hURr\$G@2G@2G@2xQG@2G{J`OG@"Qtr\$(hURr\$G@2  
=pG@3(G@2GzHG@2J(G@"tr\$(hURr\$G@2zHG@2fffffG@2(G@2JxG@"tr\$(hURr\$G@2G@2(\)G@1G@1=  
p  
JhG@!tr\$(hURr\$G@1=p  
G@2  
=pG@1QG@1J7G@!(\tr\$(hURr\$G@1  
=pG@2fffffG@1p  
=G@2=p  
=J@aG@"=p  
=tr\$(hURr%G@25(G@2u(G@1(G@2QRJpG@"QRtr\$(hURr%G@1(G@2fffffG@1)G@2GzJG@"Gztr\$(hU  
Rr%G@2G@2)G@2&fffffG@2GzHJHG@"GzHtr\$(hURr%G@2J=p  
G@2G@1fffffG@2JHG@"tr\$(hURr%G@2QG@2.zGG@1zHG@133333JG@!(tr\$(hURr  
%G@2G@2J=p  
G@1EQG@1s33333JG@!u(\tr\$(hURr%G@1p  
=qG@1QG@1QG@1O(JG@!Ltr  
%(hURr%G@1LG@1=p  
G@1#  
=pG@1J(G@!tr\$(hURr%G@1s33333G@1p  
=G@1TzGG@1  
=pJoG@!  
=ptr\$(hURr%G@1p  
=G@2  
=p  
G@1#  
=pG@1&fffffJG@!#  
=ptr\$(hU Rr%G@0  
=qG@1  
=p  
G@0GzG@0=p  
JG@ tr\$(hU  
Rr%G@0  
=pG@1J=p  
G@0G@1.zGJC`G@!.zGtr\$(hURr%G@1&fffffG@1(G@0(G@1s33333JxzG@!u(\tr\$(hURr%G@1G@1GzG@  
1s33333G@1QJHG@!zHtr\$(hU  
Rr%G@1G@133333G@1!GzG@1kQJx8hG@!kQtr\$(hURr%G@1G@2EQG@1s33333G@2EQJG@"GzHtr\$(h  
URr %G@2h)G@2G@1p  
=G@20  
=qJ`G@"333333tr!\$(hURr"%G@2s33333G@3zG{G@2O(G@3QJ8G@#Qtr#\$(hURr%G@3(\)G@3(G@2QG  
@3#  
=pJG@##  
=ptr%\$(hURr&%G@3YG@3zGG@2fffffG@3333333JhMG@#333333tr'\$(hURr(%G@3LG@3  
=qG@2G@3(JG@#(\tr\$(hURr\*%G@3xQG@3QG@2QG@2zHJPG@"zHtr+\$(hURr,%G@2(\)G@3fffffG@2(  
G@3

=pJG@#tr-%(hURr.%G@233333G@3QRG@233333G@3J=p  
J`XG@#Ltr/(hURr0%G@3LG@30\G@2zG{G@2G{J@WG@"Qtr1%(hURr2%G@2zGG@35\G@2  
=pG@3\J0yG@#\tr3%(hURr4%G@2QG@3.zGG@2\G@3  
=pJbG@#tr5%(hURr6%G@3zHG@3fffffG@3QG@3EQJFG@#GzHtr7%(hURr8%G@3G@3G@2G{G@3!GzJP  
KG@#Qtr9%(hURr:%G@3EQG@4.zGG@3!GzG@3QJG@#Gztr;%(hURr<%G@3QG@4G@3}p  
=G@4fffffJ0G@\$ffffftr=(hURr>%G@45\G@4s33333G@3  
=pG@3  
=pJxmtG@#Gztr?%(hU  
Rr@%G@3GzG@3  
=qG@3^QG@3zGJ&]G@#zGtrA%(hURrB%G@3)G@4G@3zHG@3JJG@#\trC%(hURrD%G@4\G@4fffffG  
@3QG@3fffffJfG@#ffffftrE%(hURrF%G@4QG@4=p  
=G@3nzGG@3\JpG@#QtrG%(hURrH%G@3QG@4G@3aGzG@3QJG@#GztrI%(hURrJ%G@40  
=qG@433333G@4!GzG@4fffffJ`G@\$ffffftrK%(hURrL%G@4fffffG@5.zGG@4fffffG@4\JG@\$\trM%(hURr  
N%G@4  
=qG@4G@4LG@4\J\*dG@\$QtrO%(hURrP%G@4QG@4\G@4G@4J"IG@\$trQ%(hURrR%G@433333G@4\G  
@4u\G@4=p  
JMG@\$trS%(hURrT%G@5  
=p  
G@5G@4aGzG@4\Jx|G@\$QtrU%(hURrV%G@4h)G@5RG@4fffffG@5=p  
JvG@%=p  
trW%(hURrX%G@5G@5G@4\G@4p  
=Jh\G@\$G{trY%(hURrZ%G@4p  
=G@5zGG@4QG@4QJlkG@\$Qtr[%G@4QG@4fffffG@4+QG@4GzHJ^G@\$GzHtr]%(hURr^%G@4p  
=G@5YG@4RG@5zGJIG@%zGtr\_%(hURr`%G@5G@5EQG@4  
=pG@4G{JQG@\$Qtra%(hURrb%G@4zHG@5G@4GzHG@55\J  
g}G@%333333trc%(hURrd%G@5YG@5fffffG@4G@4aGzJ8G@\$aGztre%(hURrf%G@4\G@4+QG@3G@3G  
zJG@#Qtrg%(hURrh%G@3G{G@4  
=pG@3kQG@3zGJX\_G@#  
=qtri%(hURrj%G@4\G@4!GzG@3G@3  
=pJKG@#  
=ptrk%(hURrl%G@3RG@3zGG@3\G@3)JJG@#)trm%(hURrn%G@3\G@3G@3u\G@333333JYG@#33333t  
ro%(hU  
Rrp%G@3\G@4W  
=pG@3zGG@4.zGJ`G@\$zGtrq%(hURrr%G@45\G@4TzGG@3  
=qG@3QJiG@#\trS%(hURrt%G@4QG@4RG@3)G@3\J`DG@#33333tru%(hURrv%G@3\G@4h)G@3QG@  
4W  
=pJ  
iG@\$W  
=ptrw%(hURrx%G@4^QG@4s33333G@4G@4QRJHG@\$QRtry%(hURrz%G@4.zGG@5EQG@4#  
=pG@5\JG@%Qtr{%(hURr|%G@5zHG@5\G@433333G@5zGJP\$G@%zGtr}%(hURr~%G@5\G@6G@4  
=pG@4GzJbG@\$Gztr%(hURr%G@4zHG@4)G@4}p  
=G@4\JKG@\$tr%(hURr%G@4G@5RG@4YG@5JHYG@%  
=p  
tr%(hURr%G@4)G@5zG{G@4)G@5zG{JzG@%zG{tr%(hURr%G@5TzGG@68QG@5TzGG@60  
=qJ.G@&333333tr%(hURr%G@6333333G@6G@6G@6\JhG@&Qtr%(hU  
Rr%G@6)G@6fffffG@6fffffG@6JG@&\tr%(hURr%G@6G@7QRG@6\G@633333JG@&\tr%(hU  
Rr%G@7\G@7@G@6QG@6zGJIG@&Rtr%(hURr%G@6G{G@7&fffffG@6h)G@6JG@&tr%(hU  
Rr%G@6zG{G@6=p

G@6xQG@6p  
=J\$[G@&p  
=tr%(hU Rr%G@6zHG@6QG@6QG@6^QJHKbG@&aGztr%(hU  
Rr%G@6@G@6(\G@6(\G@6.zGJ8zG@&.zGtr%(hU Rr%G@6@G@6=p  
G@6G@6(\JrtG@&\(tr%(hU Rr%G@6(\G@7#  
=pG@6O(\G@7J(bG@'tr%(hU Rr%G@6(\G@6ffffG@6QG@65\J{G@&333333tr%(hU Rr%G@65(\G@6  
=qG@6333333G@6(\JG@&\(tr%(hU Rr%G@6^QG@6aGzG@5G@6QJpG@&Qtr%(hU Rr%G@6G@6p  
=G@533333G@6GzJG@&Gztr%(hU Rr%G@6GzG@7G@6nzGG@6zGJ<pG@&zGtr%(hU  
Rr%G@6.zGG@6G@5QG@6zGJaG@&zGtr%(hU Rr%G@6QG@6u(\G@5GzG@6nzGJ .HG@&p  
=qtr%(hU Rr%G@65(\G@6O(\G@5zGG@5QRJ0G@%QRtr%(hU Rr%G@5W  
=pG@5^QG@4@G@4nzGJ@9G@\$p  
=qtr%(hU Rr%G@4LG@533333G@4&ffffG@4  
=qJ<G@\$33333tr%(hU Rr%G@5}p  
=G@5QG@4ffffG@5LJJG@%Ltr%(hU Rr%G@5  
=pG@58QG@4p  
=qG@4QJG@\$Qtr%(hU  
Rr%G@4(\G@5G@40  
=qG@4=p  
JG@\$tr%(hU  
Rr%G@4G@4G@4GzHG@4RJ3oG@\$(\tr%(hU  
Rr%G@4p  
=G@5(\G@4GzG@5  
=qJDG@%33333tr%(hU  
Rr%G@5QG@6TzGG@5zGG@6J=p  
J:G@&Ltr%(hU  
Rr%G@6G@7h)\G@5)\G@78QJG@'8Qtr%(hU  
Rr%G@7@G@7=p  
G@6G{G@7(JG@'\(tr%(hU  
Rr%G@7LG@7QG@6=p  
G@7s33333JG@'u(\tr%(hU  
  
Rr%G@7G@7(\G@7^QG@7zGJhG\_G@'zGtr%(hU  
  
Rr%G@7G{G@8h)\G@7QG@8YJG@(\(\tr%(hU  
Rr%G@8QRG@8p  
=G@80  
=qG@8JpG@ (=p  
tr%(hU  
Rr%G@8G@9(\G@8zGG@8RJzLG@(Rtr%(hU  
Rr%G@7G@7  
=pG@6h)\G@7@JhG@'=p  
=tr%(hU  
Rr%G@7aGzG@7}p  
=G@6nzGG@6JG@&\(tr%(hU  
Rr%G@6G@7W  
=pG@6aGzG@78QJhG@'8Qtr%(hU  
Rr%G@7O(\G@7ffffG@6G@7.zGJ)`G@'.zGtr%(hU  
Rr%G@6

=qG@7333333G@6zGG@6(JXG@&)(tr%(hU  
Rr%G@6G{G@7&ffffG@6  
=pG@6p  
=JpZG@&G{tr%(hU  
Rr%G@6(G@6G@6:G{G@6JwG@&tr%(hU  
Rr%G@6G@6  
=pG@6}p  
=G@6JXJXG@&tr%(hU  
Rr%G@6(G@7QG@6ffffG@7QJh,G@'Qtr%(hU  
Rr%G@7(G@7ffffG@7W  
=pG@7  
=qJ(G@'33333tr%(hU  
Rr%G@7p  
=G@8G@6QG@7  
=pJG@'tr%(hU  
Rr%G@7LG@7YG@6zHG@6  
=pJ vG@&Gztr%(hURr%G@6zGG@7LG@6zHG@7&ffffJ8 G@'#  
=ptr%(hURr%G@7RG@7G@6  
=pG@6)JPG@&fffftr%(hURr%G@6RG@7!GzG@6xQG@7zHJG@'  
=p  
tr%(hURr%G@6)G@7&ffffG@6ffffG@7QJpC@'Qtr%(hURr%G@70  
=qG@7=p  
=G@6s33333G@6J0rG@&tr%(hU  
Rr%G@6s33333G@6ffffG@5  
=pG@5ffffJG@%fffftr%(hURr%G@5ffffG@6QG@5zG{G@5=p  
J4uG@%=p  
tr%(hURr%G@5zG{G@6QG@5zG{G@6TzGJ }G@&QRtr%(hU  
Rr%G@6RG@6(G@5QG@6kQJsG@&kQtr%(hURr%G@6zG{G@6(G@5GzHG@5u(JP.G@%u)(tr%(hURr%  
G@5YG@5^QG@433333G@5!GzJc|G@%Qtr%(hURr%G@55(G@5W  
=pG@4YG@4h)JG@\$fffftr%(hURr%G@4(G@4ffffG@4B(G@4kQJG@\$kQtr%(hURr%G@4G@5zGG@4G  
@4aGzJG@\$aGztr%(hURr%G@4W  
=pG@4zGG@3G@4GzHJHG@\$GzHtr%(hURr&G@4G@5EQG@4s33333G@5&ffffJG@%#  
=ptr&(hURr&G@5:G{G@5@G@4(G@4zGJgG@\$zGtr&(hURr&G@4  
=pG@5&ffffG@4@G@4QJG@\$Qtr&(hURr&G@4zHG@5RG@4QG@4)Jhx)G@\$fffftr&(hURr&G@5  
=p  
G@5G@5G@5(JG@%33333tr &(hURr  
&G@5G@5ffffG@5h)G@5=p  
JoG@%=p  
tr&(hURr&G@5=p  
G@5  
=pG@4(G@5zHJ?hG@%  
=p  
tr  
&(hURr&G@4  
=qG@5+QG@4QG@5&ffffJ8`G@%#  
=ptr&(hURr&G@4ffffG@5&ffffG@4G{G@4JpueG@\$(tr&(hURr&G@4zHG@5zGG@4h)G@5JxPG@%  
=p  
tr&(hU Rr&G@5+QG@5@G@4ffffG@4s33333JIG@\$u)(tr&(hU

Rr&G@4s33333G@4(\G@3)(G@4aGzJG@\$aGztr&(hURr&G@4@G@5W  
=pG@45(\G@55)(J8cG@%333333tr&(hURr&G@5QRG@5QRG@433333G@4  
=pJhG@\$Gztr&(hURr&G@5}p  
=G@5}p  
=G@4RG@4+QJ@G@\$zGtr&(hURr&G@40  
=qG@4}p  
=G@4(G@4QJPG@\$Qtr&(hURr &G@4zGG@4!GzG@3=p  
G@3GzJuG@#Gztr!&(hURr"&G@3ffffG@4.zGG@3ffffG@4  
=p  
JUG@\$  
=p  
tr#&(hURr\$&G@40  
=qG@4kQG@3QG@333333J+G@#33333tr%&(hURr&&G@3ffffG@3  
=pG@3@G@3J{G@#(\tr'&(hURr(&G@3QG@333333G@3G@3(JHG@#tr)&(hURr\*&G@3QG@4  
=pG@3ffffG@4h)J`G@\$fffftr+&(hURr,&G@4YG@4)G@4W  
=pG@4zHJh8G@\$zHtr-&(hURr.&G@4)G@5(\)G@4(G@5&ffffJ9G@%#  
=ptr/&(hURr0&G@5.zGG@5G@5&ffffG@5GzHJoG@%GzHtr1&(hURr2&G@5YG@5zHG@5.zGG@5^QJ\_G  
@%aGztr3&(hURr4&G@5G@5G@5.zGG@5GzHJNG@%GzHtr5&(hURr6&G@5kQG@6c  
=pG@5kQG@6+QJDG@&.zGtr7&(hURr8&G@6@G@6kQG@5)(G@6  
=pJG@&tr9&(hURr.&G@6G@6zGG@5zGG@6  
=pJ8?G@&tr;&(hURr<&G@6  
=pG@7G{G@6ffffG@7(\JhG@`(\tr=&(hU Rr>&G@7:G{G@8!GzG@6=p  
G@7J'G@'tr'?&(hURr@&G@7@G@8G@7G@7G{J0 G@'QtrA&(hU  
RrB&G@833333G@8  
=pG@7(\G@8QJrG@(QtrC&(hURrD&G@8ffffG@8=p  
G@7zHG@8333333JQG@(333333trE&(hURrF&G@6)G@7ffffG@6G@6J8\*G@&(\trG&(hURrH&G@6  
=pG@7  
=p  
G@6(\G@6QJ+G@&QtrI&(hURrJ&G@6QG@6G@6@G@6G{JX-  
G@&QtrK&(hURrL&G@633333G@6QG@6nzGG@6(J{G@&QtrM&(hURrN&G@6(\G@6zGG@6.zGG@6.zG  
JoG@&.zGtrO&(hURrP&G@6kQG@6p  
=G@6@G@6(J0{G@&(\trQ&(hURrR&G@6u(\G@7)(G@6nzGG@7)(JG@'QtrS&(hURrT&G@7  
=p  
G@7@G@6G@7RJWG@`(\trU&(hURrV&G@6  
=pG@7aGzG@6h)G@6QJG@&QtrW&(hURrX&G@6GzG@6G@60  
=qG@6zGJpsG@&zGtrY&(hURrZ&G@6ffffG@6QG@6kQG@6(JdG@&(\tr[&(hURr\&G@6u(\G@6(\G@6zG  
G@6QRJ8G@&QRtr]&(hURr^&G@6LG@6ffffG@6G@6B\(\JbG@&B\(\tr\_&(hURr`&G@6G@6  
=pG@533333G@5=p  
JXG@%tra&(hURrb&G@5RG@6)G@5(\G@6kQJIG@&kQtrc&(hURrd&G@6s33333G@6  
=pG@6ffffG@6(JiG@&33333tre&(hU Rrf&G@6QG@6(\G@6G@6QJfG@&zGtrg&(hU  
Rrh&G@6QG@7QG@6p  
=qG@6G{J&G@&G{tri&(hURrj&G@7  
=pG@7QG@7G@7JG@'trk&(hURrl&G@7(\G@7p  
=G@7G@7G{JcdG@'Qtrm&(hU  
Rm&G@7G@8G@6zGG@7J2G@'tro&(hURrp&G@7G@7}p  
=G@7G@7(\)J\*]G@'(\)trq&(hURrr&G@7.zGG@7p  
=qG@7G@7B\(\J'MG@'B)(trs&(hURrt&G@7TzGG@7  
=pG@6h)G@6xQJG@&u(\tru&(hURrv&G@6G@6)(G@65)(G@6ffffJ HG@&fffftrw&(hURrx&G@6W

=pG@6u\G@5  
=pG@60  
=qJiG@&333333try&(hURrz&G@6#  
=pG@6p  
=G@6G@6\(\J,G@&\tr{&(hURr|&G@6GzHG@6ffffG@65\G@6(JG@&tr}&(hURr~&G@6GzG@7.zGG@6  
G@7  
=p  
JIG@'  
=p  
tr&(hURr&G@6(G@8QG@633333G@7QJG@'Qtr&(hURr&G@8G@8LG@7QG@8QJXMG@(Qtr&(hURr&G  
@8G@8G@7QG@7(J(G@'tr&(hURr&G@7G@80  
=qG@7G@7QJzG@'Qtr&(hURr&G@7zGG@98QG@7)G@9\JgG@)\tr&(hURr&G@833333G@; }p  
=G@8ffffG@:p  
=JXGG@\*p  
=tr&(hURr&G@:QG@:=p  
G@9G@:JPG@\*tr&(hU Rr&G@9ffffG@;G{G@9G@;J0PG@+tr&(hU  
Rr&G@;  
=p  
G@<#  
=pG@:  
=qG@;zGJx\$G@+zGtr&(hURr&G@;EQG@<  
=p  
G@;  
=pG@;&ffffJDG@+#  
=ptr&(hURr&G@;QRG@;zHG@;+QG@;\(JiG@+\tr&(hURr&G@;zHG@;YG@:B\G@:s33333JG@\*u\tr&(hU  
Rr&G@:G@:\G@9c  
=pG@9RJHIG@)Rtr&(hURr&G@9\G@:aGzG@9zHG@:0  
=qJp6G@\*333333tr&(hURr&G@9  
=qG@:\G@9  
=pG@9QJG@)zGtr&(hURr&G@9\G@:  
=qG@9=p  
G@9(JG@)\tr&(hURr&G@9^QG@:+QG@9@G@9(JZG@)\tr&(hURr&G@9GzG@:G@98QG@9J=p  
JG@)Ltr&(hURr&G@9EQG@9G@9EQG@9J[G@)tr&(hURr&G@:#  
=pG@:\G@9  
=pG@:QJ84G@\*Gztr&(hURr&G@;G@;\(G@:\)G@;  
=p  
JG@+  
=p  
tr&(hURr&G@;^QG@;p  
=G@;333333G@;)J!G@+fffftr&(hURr&G@;p  
=G@;333333G@;W  
=pG@;QJ G@+Qtr&(hURr&G@;QG@;G{G@:333333G@;  
=p  
JhG@+  
=p  
tr&(hURr&G@:  
=pG@;EQG@:QG@;\(zG@+Qtr&(hURr&G@;G@;zGG@;G{G@;J0G@+tr&(hURr&G@;zG{G@<^QG@;p  
=qG@<QRJ,G@,QRtr&(hURr&G@;\(G@<&ffffG@;nzGG@;zGJ0G@+Rtr&(hURr&G@;\(G@;333333G@:QG

@;O\(\JhG@+Ltr&(hURr&G@;GzG@<G@;333333G@;zHJ(JG@+=p  
tr&(hURr&G@;G@<G@;)}p  
=G@<  
=p  
J)G@,  
=p  
tr&(hU  
Rr&G@;G{G@<zHG@:  
=pG@:zGJ@G@\*  
=qtr&(hURr&G@:p  
=G@;RG@:O\G@:  
=pJp\G@\*  
=ptr&(hURr&G@<RG@=zGG@<(\)G@=LJG@-Ltr&(hURr&G@=&ffffG@=O\G@<G@=.zGJG@-  
.zGtr&(hURr&G@<QG@<G@;zGG@<YJ3G@,\(\tr&(hURr&G@<5\G@<h)G@;\G@;G{J2G@+Qtr&(hURr&  
G@;G@<QG@;^QG@;G{JG@+Qtr&(hURr&G@;\G@<.zGG@;\G@;zHJG@+zHtr&(hURr&G@;33333G@<G  
@;G@;33333JG@+33333tr&(hURr&G@;zGG@;  
=pG@;G@;!GzJ)G@+Qtr&(hURr&G@;=p  
=G@;p  
=qG@:  
=qG@:  
=qJG@\*  
=qtr&(hURr&G@:RG@;\G@:W  
=pG@:s33333J)G@\*u\(\tr&(hURr&G@:s33333G@;G@9G{G@:QJ'G@\*zHtr&(hURr&G@:\G@:\G@9)p  
=G@9zHJ@9G@)zHtr&(hURr&G@:G@:TzGG@9p  
=G@:RJ2G@\*\tr&(hURr&G@9QG@:G@9G@:#  
=pJ(G@\*#  
=ptr&(hURr&G@:333333G@:G@9\G@:ffffJG@\*  
=ptr&(hURr&G@:ffffG@:G@9ffffG@:zGJG@\*zGtr&(hURr&G@:G@;RG@:G@:QJ'[G@\*zGtr&(hU  
Rr&G@:EQG@:G@9  
=qG@:GzHJ8:G@\*GzHtr&(hURr&G@:ffffG@;0  
=qG@:ffffG@;#  
=pJ8NG@+#  
=ptr&(hURr&G@:=p  
G@;W  
=pG@:=p  
=G@;LJHG@+Ltr&(hU  
Rr&G@;G@;QG@:ffffG@;0  
=qJhB)G@+333333tr&(hURr&G@;@G@;QRG@:s33333G@;\J)G@+(\tr&(hURr&G@:33333G@;\G@:\G@:  
=pJG@\*  
=ptr&(hURr&G@:QG@;J=p  
G@:G@;\(JKpG@+(\tr&(hURr&G@;ffffG@;G@:kQG@:xQJpG@\*u\tr&(hURr&G@:GzG@;G@:xQG@:\(J(j  
G@\*33333tr&(hURr&G@:ffffG@;333333G@:G{G@;\JbG@+Qtr&(hURr&G@;J=p  
G@;ffffG@;\G@;W  
=pJdG@+W  
=ptr&(hURr&G@;G@<\G@;J=p  
G@<h)J\_G@,fffftr&(hURr&G@<TzGG@<zHG@<G@<\(JPG@,Qtr&(hURr&G@<u\G@<G@;RG@<+QJPG  
@,.zGtr&(hURr'G@<zGG@<EQG@;G@<\(JhOG@,\(tr'(hURr'G@;=p  
G@<333333G@;\G@<\(J'AcG@,\(tr'(hURr'G@<zHG@=+QG@;G@<QJHG@,Qtr'(hURr'G@<QG@<p



=G@<J=p  
G@<ffffffJG@,fffffftr'(hURr'G@<(\G@=@G@<(\G@<zHJG@,zHtr '(hURr  
'G@=  
=p  
G@=G{G@<(\G@=(JX=G@-tr'(hURr'G@=p  
=G@>p  
=qG@=zGG@>YJ~G@.\(\tr  
'(hU Rr'G@>  
=pG@>(\G@>G@>333333J0MG@.333333tr'(hU  
Rr'G@>333333G@>QG@>333333G@>p  
=J^G@.p  
=tr'(hURr'G@>ffffffG@>zGG@=G@>QJHG@.Qtr'(hURr'G@>=p  
G@?#  
=pG@>B\(\G@>  
=qJxNG@.33333tr'(hURr'G@>)\G@>)\G@>zHG@@@^QJ G@0^Qtr'(hURr'G@@@GzHG@@@  
=qG@@@G{G@@@gzHJr,G@0h)tr'(hURr'G@@@TzGG@@@zGG@@@7  
=pG@@@tzGJcG@0s33333tr'(hURr'G@@@(\G@@@G@@@(\G@@@\*=p  
JHG@0+Qtr'(hURr'G@@@&ffffffG@@@QG@@@%QG@@@JvG@0tr'(hURr 'G@@@G@@@=p  
G@@@qRG@@@JG@0tr!(hURr"G@@@GzG@@@G@@@)p  
=G@@@  
=pJ G@0  
=ptr#'(hURr's'G@@@)\G@@@G@@@G@@@JAG@0tr%'(hURr&'G@A  
=pG@AQG@@@G{G@@@>QJG@0@tr"(hURr('G@@@)\G@@@~QG@?h)\G@@@@JAG@0@tr)'(hURr\*'G@@@GzHG  
@@@|\G@?  
=pG@@@EQJJG@0EQtr+'e((hURr,'G@@@G@@@=p  
=G@?ffffffG@@@&ffffffJWG@0&fffffftr-  
'(hURr.'G@>zG{G@?.zGG@=G{G@?zGJpHG@/zGtr/'(hURr0'G@?EQG@?kQG@>G@>33333J-  
G@.\(\tr1'(hURr2'G@>G@?\(\G@>!GzG@>c  
=pJpG@.aGztr3'(hURr4'G@>!GzG@>zGG@=33333G@>#  
=pJ.G@.#  
=ptr5'(hU Rr6'G@>EQG@>G@>zHG@>zHJHqG@.  
=p  
tr7'(hURr8'G@>QG@>  
=p  
G@<zGG@=#  
=pJG@-#  
=ptr9'(hU  
Rr:'G@=@G@=G@=QG@=8QJ`MG@-8Qtr;'(hURr<'G@<(\G@=QG@<p  
=G@=zGJyG@-zGtr=(hURr>'G@@@TzGG@@@  
=qG@@@zGG@@@w  
=pJHUG@0xQtr?'(hURr@'G@@@ffffffG@@@u\(\G@@@(\G@@@J%  
G@0trA'(hURrB'G@@@GzG@@@(\G@?)G@?QJ"G@/(\trC'(hURrD'G@?33333G@@@G@?G@@@JmG@0trE'(hURr  
F'G@@@5\(\G@@@ZG{G@?W  
=pG@?QJ  
,G@/QtrG'(hURrH'G@?@G@?G{G@?(\G@?zGJG@/zGtrI'(hURrJ'G@?zHG@?G@>zG{G@>33333JG@.33333t  
rK'(hURrL'G@>G@?s33333G@>zHG@?B\JG@/B\(\trM'(hURrN'G@?G@@@`G@?RG@@@7  
=pJ0G@08QtrO'(hURrP'G@@@'zHG@@@4zGG@?(\)G@@@"(J0WG@0#  
=ptrQ'(hURrR'G@@@<(\G@@@h)G@@@

=qG@@QRJyG@0QRtrS'(hURrT'G@@S33333G@@G@@G@@+QJoG@0+QtrU'(hURrV'G@?.zGG@@G@?!  
GzG@?zJG@/zGtrW'(hURrX'G@?s33333G@?QG@?&ffffG@?J=p  
J8TsG@/LtrY'(hURrZ'G@?0  
=qG@@\ (G@?+QG@?=p  
JG@/tr'(hURr'G@?\ (G@@&ffffG@?@G@?c  
=pJ(>G@/aGztr')(hURr^'G@>ffffG@?G@=33333G@=zHJFG@-zHtr\_(hU  
Rr^'G@=G@>s33333G@=(G@>LJG@.Ltra'(hU  
Rrb'G@>c  
=pG@?=p  
G@>YG@?QJLG@/Qtrc'(hURrd'G@?G@?!GzG@>B\ (G@?\ (JG@/Qtre'(hURrf'G@>s33333G@>G@>GzHG@>  
^QJE{G@.aGztrg'(hU  
Rrh'G@>G@?GzHG@>ffffG@>  
=pJG@.  
=ptri'(hURrj'G@?G@?QG@>  
=pG@>zHJxlG@.zHtrk'(hURrl'G@>zGG@?!GzG@>YG@>QJG@.Gztrm'(hURrn'G@>\ (G@?G@> }p  
=G@?p  
=JG@/p  
=tro'(hURrp'G@?\ (G@?\ (G@>\ (G@>\ (JG@.33333trq'(hURrr'G@>\ (G@>p  
=G@> }p  
=G@>JG@.trs'(hURrt'G@>\ (G@?EQG@>G@?zGJXG@/zGtru'(hURrv'G@?B\ (G@?33333G@?0  
=qG@?33333JPG@/\ (trw'(hURrx'G@?QG@@33333G@?G{G@ @ffffJHG@0Qtry'(hURrz'G@ @QG@A  
=pG@ @^QG@ATzGJG@1TzGtr{ '(hURr|'G@AW  
=pG@AaGzG@AG@A,JG@1+Qtr}'(hURr~'G@AG@A\ (G@ @G{G@A\ (JvG@1\ (tr'(hURr'G@A)\ G@AyG@A  
G@A>QJ5G@1@tr'(hU Rr'G@A&ffffG@AQG@AQG@AzGJpG@1zGtr'(hU Rr'G@AG@AzHG@Aj=p  
G@AzGJmG@1zGtr'(hU Rr'G@AGzG@A\ (G@AGzG@Ap  
=JhG@1\ (tr'(hU Rr'G@A33333G@BQG@Ap  
=G@AGzJG@1Gztr'(hU Rr'G@AG@BH)\ G@A  
=pG@B,J5G@2+Qtr'(hU Rr'G@BG@B&ffffG@A  
=pG@AJhG@1tr'(hU  
Rr'G@AzGG@Bp  
=G@AG{G@A\ (JG@1zGtr'(hU  
Rr'G@A  
=qG@B)\ G@A)\ G@AQJHG@1tr'(hU Rr'G@AQG@AffffG@Ac  
=pG@AQJG@1tr'(hU Rr'G@AzGG@Ap  
=G@AffffG@AJ~G@1tr'(hU Rr'G@AG@BaGzG@A=p  
G@B,JG@2+Qtr'(hU Rr'G@BffffG@B  
=qG@B33333G@BRJG@2Rtr'(hU Rr'G@Bp  
=qG@Bp  
=G@Bo\ (G@BG{JG@2tr'(hU Rr'G@BG@Co\ (G@BG{G@CGzJhG@3tr'(hU  
Rr'G@CG@CRG@BgZHG@Bu\ (JG@2u\ (tr'(hU Rr'G@BQG@BG@Bw  
=pG@B\ (JhG@2  
=ptr'(hU Rr'G@BG@CG@B33333G@BQJZG@2fffftr'(hU Rr'G@ByG@Bp  
=G@Bj=p  
G@B  
=pJG@2\ (tr'(hU Rr'G@BG{G@C%QG@BG@CQJxG@3Qtr'(hU Rr'G@B  
=pG@CnzGG@B)\ G@CW  
=pJ  
G@3W

=ptr'(hU Rr'G@CG@C\G@C9G@C`JG@3aGztr'(hU  
Rr'G@C\G@CQG@CJ=p  
G@CU\J G@3TzGtr'(hU  
Rr'G@C  
=pG@C  
=pG@C`G@CeQJ8G@3fffftr'(hU  
Rr'G@CGzHG@C\G@C33333G@C\JHWG@3zGtr'(hU  
Rr'G@CG@DaGzG@C\G@DQRJH7G@4QRtr'(hU  
Rr'G@DEQG@Dw  
=pG@CG{G@C\J;G@3\tr'(hU  
Rr'G@CzHG@C\G@CkQG@CzHJG@3zHtr'(hU  
Rr'G@CffffffG@CzHG@CG@CKQJ~G@3Ltr'(hU  
Rr'G@C@G@CJ=p  
G@B33333G@C%QJG@3&fffftr'(hU

Rr'G@Co\G@CGzG@C^QG@CJyG@3Gztr'(hU  
Rr'G@EQG@FG@EFFFFG@F}p  
=JPG@6}p  
=tr'(hU  
Rr'G@Fp  
=qG@FzGG@FQG@FJIG@6tr'(hU  
Rr'G@FYG@GG@FYG@GJ[G@7Gztr'(hU  
Rr'G@HG@H,G@GzHG@G\J(  
G@7\tr'(hU  
Rr'G@G  
=pG@GG@GS33333G@G\JIG@7p  
=tr'(hU  
Rr'G@Gp  
=G@H  
=qG@GzGG@GQJG@7Qtr'(hU  
Rr'G@GQG@G\G@G\G@GzGJ0@G@733333tr'(hU  
Rr'G@GG@GQG@G\G@GffffJXG@7Qtr'(hU  
Rr'G@GG@HffffG@G\G@G\JCG@7p  
=tr'(hU  
Rr'G@HAGzG@IO\G@H\G@I&ffffJ gG@9&fffftr'(hU  
Rr'G@Hp  
=G@J\G@HG@JQJG@:  
=ptr'(hU  
Rr'G@IQG@JG@IffffG@J333333JG@:333333tr'(hURr'G@J@G@JGzG@JQG@J9JhHG@:G{tr'(hURr'G@J33  
3333G@K  
=p  
G@J333333G@JJG@:tr'(hURr'G@K\G@LzGG@JQG@KzHJ8G@;)tr'(hURr'G@K  
=pG@KffffG@K\G@K9JG@:;G{tr'(hURr'G@KnzGG@KG@JQG@K\JG@:\tr'(hURr'G@K"\G@KG@JzG  
G@K0  
=qJ(&G@;0  
=qtr'(hU Rr'G@Kp  
=G@KFffffG@J  
=qG@KffffJpEG@;Qtr'(hU

Rr'G@JG@KRG@JzGG@K`J4G@;aGztr'(hURr'G@KyG@K  
=pG@Kp  
=G@KffffJG@;fffftr'(hURr'G@KGzG@KQG@KkQG@KJG@;tr'(hURr'G@KG@KG{G@K+QG@KQJG@;Qt  
r'(hURr'G@KzGG@KG@K=p  
=G@KxQJG@;xQtr'(hURr'G@KQG@KG@K(\G@Ks3333JG@;s3333tr'(hURr'G@K&ffffG@KG@K%QG@  
KRJx7G@;  
=qtr'(hURr'G@KQG@LtzGG@K@G@K)(JHG@;zGtr'(hURr'G@NffffG@PG@L3333G@NJHwG@>Qtr'(hUR  
r'G@O&ffffG@O9G@NffffG@N\JxG@>  
=ptr'(hURr'G@NQG@PLG@NffffG@P3333JXG@@  
=ptr'(hURr'G@PVffffG@Pp  
=qG@P(\G@P#3333J+G@@#  
=ptr'(hURr'G@Q<G@QdzGG@P=p  
G@Q(\J0wG@A(\tr'(hURr'G@Q2)(G@Q2)(G@P3333G@P3333J0G@@  
=ptr'(hURr(G@P(\G@PG@PGzG@P(\J`DG@@3333tr'(hURr(G@PQG@PG@P\*=p  
G@PMp  
=JG@@Ltr(hURr(G@P!RG@P@G@NG@OW  
=pJxG@?W  
=ptr'(hURr(G@PG@P(\G@OyG@PqRJG@@qRtr(hURr(G@P{QG@PQG@OGzHG@OqRJ?G@?p  
=qtr (hURr  
(G@O=p  
G@PQG@OffffG@O  
=pJyG@?  
=ptr(hU Rr(G@OgzHG@PG@O)G@OQJG@@tr  
(hU  
Rr(G@PARG@P3333G@P,G@PIJXG@@J=p  
tr(hU  
Rr(G@PgzHG@PyG@P&ffffG@P:=p  
JGG@@:G{tr(hURr(G@PYG@PxQG@PAGzG@PR)(JG@@S3333tr(hURr(G@PO(\G@P]p  
=G@P\*=p  
G@PP  
=qJG@@@P  
=qtr(hURr(G@PG@PG@P3333G@PffffJ  
eG@@fffftr(hURr(G@P(\G@P(\G@P9G@P?(JG@@>Qtr(hURr(G@P^zGG@PG@NGzG@O(\JIG@?(\tr(h  
URr(G@OzHG@O)(G@NG@OQJPDG@?  
=ptr(hURr(G@OzGG@P  
=pG@O3333G@OJHZ4G@?Gztr(hURr (G@OG@PG@OG@P  
=qJ`G@@Gztr!(hURr"(G@P33333G@PIG@Op  
=qG@OzGJ0G@?zGtr#(hURr\$(G@OffffG@PG@OffffG@PQJPaMG@@Qtr%((hURr&(G@OzHG@P>QG@  
O)G@P(\JG@@(\tr'(hURr((G@P3  
=pG@PARG@PzGG@P33333J  
2G@@33333tr)((hURr\*(G@P8)G@P@G@PRG@PJG@@tr+(hURr,(G@P1RG@PG  
=pG@OLG@OQJyG@?fffftr-(hURr.(G@OQG@P^zGG@O|(\G@OQJUG@?Qtr/(hURr0(G@Pp  
=G@PPG@P33333G@P JrG@@ tr1(hURr2(G@P\*G{G@P:=p  
G@O=p  
G@P#33333J@G@@#  
=ptr3(hURr4(G@P@G@QhQG@P0G@QPJ8G@AO)(tr5(hU  
Rr6(G@QuQG@QG@PQG@Q=p  
=J8G@A=p

=tr7((hURr8(G@QG@QIG@P)G@P#  
=pJP9G@ @#  
=ptr9((hURr:(G@P\G@PyG@OffffG@P]p  
=J'G@ @]p  
=tr;(hU  
Rr<(G@Rmp  
=G@RG{G@QnQG@Qs33333J@G@As33333tr=((hURr>(G@QG@QzGG@QL(\G@QJ`G@Atr?((hURr@(G@  
QvffffG@QG@PG@QJ(z\$G@A=p  
trA((hURrB(G@Q\G@Qp  
=G@QpG@QxQJG@AxQtrC((hURrD(G@QiG@QGzG@Q^zGG@Qp  
=JG@Ap  
=trE((hURrF(G@Q  
=pG@QffffG@QG@Q\JG@AQtrG((hURrH(G@QQG@QRG@Q33333G@Q  
=qJG@A  
=qtrI((hURrJ(G@QzHG@R5\G@Q\G@R33333Jh0G@B  
=ptrK((hURrL(G@R\*=p  
G@R0G@QzGG@RJhG@B\trM((hURrN(G@R  
=p  
G@R:G{G@Q33333G@R\J  
IG@B\trO((hURrP(G@R'zHG@R~QG@R\G@R~QJG@B~QtrQ((hURrR(G@RQG@Sx)G@R  
=qG@S9J G@C9trS((hURrT(G@SC33333G@SqGzG@S%QG@SaRJ0qG@CaGztrU((hURrV(G@S|G@S=p  
G@SI\G@SQJ+G@CzHtrW((hURrX(G@SffffG@SQG@SUQG@Ss  
=pJG@Cs33333trY((hURrZ(G@SwzHG@SQG@SaRG@S\J3G@C\tr[((hURr\G@SQG@SffffG@S`G@S\Jh  
G@C\tr]((hURr^(G@SzGG@TXQG@S\G@T9JG@D9tr\_(hU  
Rr`G@TB\G@T\G@SffffG@S\JJG@C\tra((hU  
Rrb(G@SzGG@SRG@S\*=p  
G@S  
=pJSG@C  
=ptrc((hURrd(G@S  
=pG@Tp  
=qG@S\G@TMp  
=JG@DLtre((hURrf(G@TQG@U2\G@T33333G@U(QJxG@E'zHtrg((hURrh(G@U=p  
G@VEQG@UG@V=p  
JG@FG{tri((hURrj(G@V G@VG@UffffG@VQJQ}G@FzHtrk((hURrl(G@VG@VQG@UG@U  
=pJ;G@E33333trm((hURrn(G@U\G@U  
=pG@UG@U  
=pJ yG@E33333tro((hURrp(G@U33333G@V33333G@UR\G@UR\JXvG@ES33333trq((hURrr(G@UzGG@V  
G@Uc33333G@VQJG@F\trs((hURrt(G@VQG@VS  
=pG@UQG@V;QJ;G@F<\tru((hURrv(G@VgzHG@Vz=p  
G@V\G@V?\JG@F>Qtrw((hURrx(G@FW  
=pG@FRG@EG{G@FnzGJxcG@FnzGtry((hURrz(G@F~QG@FzGG@FzGG@F@Jh\$G@F@tr{((hURr|(G@F  
G@FqRG@F  
=p  
G@F\JG@F\tr)((hURr~(G@F\G@F4zGG@D\G@DQJHJG@DQtr((hURr(G@EaGzG@EGzG@DG@EgzHJ  
SG@EgzHtr((hURr(G@EffffG@EG@E,G@E`J0G@E`tr((hURr(G@D33333G@EzGG@DG@DC  
=pJ,G@DC  
=ptr((hU Rr(G@CRG@D#  
=pG@Cj=p

G@CJG@Ctr(hU  
Rr(G@C  
=pG@D!GzG@CG@C=p  
J}G@C=p  
tr((hURr(G@DG{G@DKQG@CffffG@D"(JXG@D"(tr((hURr(G@DB\((G@DeQG@C\((G@D\))JIG@D\))tr((h  
URr(G@DQRG@DRG@D G@DzG{Jx+G@DzG{tr((hURr(G@DG{G@E'zHG@Dc  
=pG@D  
=pJ,G|G@D  
=ptr((hURr(G@D  
=pG@Ep  
=qG@D\G@E JG@E tr((hURr(G@E=p  
G@EQG@E@G@EzG{J'WG@EzG{tr((hURr(G@EQG@E\G@EnzGG@EJ0&G@Etr((hURr(G@EG{G@EG{  
G@EW  
=pG@Ej=p  
JX,G@Ej=p  
tr((hURr(G@E9G@E33333G@E\G@EfffffJSLG@Effffftr((hURr(G@EzGG@EG@E@G@E@Jx5G@E@tr((  
hURr(G@E`G@EzG{G@E<\G@EC  
=pJDG@EC  
=ptr((hURr(G@EGzHG@Ej=p  
G@DG@DJHkG@Dtr((hURr(G@E)\G@EfffffG@D)\G@EfffffJd<G@Effffftr((hURr(G@E9G@EB\G@DQG  
@D\J|ZG@D\tr((hURr(G@EQG@E  
=pG@DH\G@DqRjx]G@DqRtr((hURr(G@D~QG@DzHG@DzGG@DQJ0<G@DQtr((hURr(G@D\G@EQG@  
DQG@DRJd /G@DRtr((hURr(G@E333333G@EgzHG@E33333G@E\*=p  
JG@E\*=p  
tr((hURr(G@E\*=p  
G@EG@E G@EzHJLIG@EzHtr((hURr(G@EG@F9G@EQG@EQJ1bG@EQtr((hURr(G@F33333G@F  
G@DzGG@D\JLG@D\tr((hURr(G@E>QG@EQG@EGzG@ETzGJG@ETzGtr((hU  
Rr(G@EyG@E~QG@D1RG@DQJG@DQtr((hURr(G@CgzHG@CzHG@BkQG@BGzJ^G@BGztr((hURr(G@B  
O\G@BG@A  
=pG@AJG@Atr((hURr(G@AG@B&ffffG@AG@A\J  
AG@A\tr((hURr(G@BLG@BQG@A\G@BQJrMG@BQtr((hURr(G@BzGG@BQG@AQG@AGzJLG@AGztr(  
(hURr(G@B33333G@BG{G@A33333G@B  
=pJG@B  
=ptr((hURr(G@BkQG@BG@As33333G@AJJG@Atr((hURr(G@B>QG@B\G@BzGG@B}p  
=JG@B}p  
=tr((hURr(G@Bc  
=pG@BGzG@B\G@BQJG@BQtr((hURr(G@ARG@B.zGG@AGzG@AJNG@Atr((hURr(G@B%QG@B+QG  
@AQG@AQJlh9G@AQtr((hURr(G@B33333G@Bp  
=G@A\G@BzHJpnG@BzHtr((hURr(G@BG{G@BS33333G@B\G@B7  
=pJG@B7  
=ptr((hURr(G@B333333G@B^QG@B  
=pG@BG{JG@BG{tr((hURr(G@BzGG@BG@BG@B33333J<G@B33333tr((hURr(G@BG@B\G@B<\G@BW  
=pJG@BW  
=ptr((hURr(G@BqRG@B=p  
G@BeQG@BQJtG@BQtr((hU Rr(G@B  
=pG@BG@B`G@B|\JG@B|\tr((hU  
Rr(G@B`G@BG@B\*=p  
G@B5\JG@B5\tr((hURr(G@AG@A\G@@zGG@AzGJXG@AzGtr((hURr(G@A\G@AQG@AG@A

=qJIG@A  
=qtr(hU  
Rr(G@AG@Ap  
=G@A\)G@Ab(J~G@Ab(tr(hURr(G@AGzHG@AG@AC  
=pG@AffffJ\xG@Afffftr(hURr(G@ARG@AG{G@AEQG@AzGJL@G@AzGtr(hURr(G@AG@BzHG@A~Q  
G@AQJZG@AQtr(hURr(G@A  
=pG@B  
=pG@A  
=pG@BffffJ  
=G@Bfffftr(hURr(G@BG@B33333G@BQG@BffffJG@Bfffftr(hURr(G@BG@C33333G@BG@CGzJp(8G  
@CGztr(hURr(G@CG@CQG@C  
=pG@CJhCG@Ctr(hURr(G@CG@CG@C\)G@C  
=pJIG@C  
=ptr(hURr(G@CQG@DxQG@CQG@D^QJbG@D^Qtr(hURr(G@DQRG@DeQG@DGzG@DGzHJ5G@DGzH  
tr(hURr(G@DTzGG@D^QG@C=p  
G@CGzJ<FG@CGztr(hURr(G@CRG@DaGzG@CzGG@D&ffffJNG@D&fffftr(hURr(G@DffffG@D(\)G@  
CG@DQJG@DQtr(hURr(G@CzGG@CJ=p  
G@B\G@CQJs G@CQtr(hURr)G@C\*=p  
G@CP  
=qG@BzHG@B\JIG@B\tr(hURr)G@BG@Bp  
=G@B9G@BEQJ#G@BEQtr(hURr)G@BP  
=qG@BG@BH\)G@Bu(J\*G@Bu(tr(hU Rr)G@BG@BQG@Bh)G@B33333J\$G@B33333tr(hU  
Rr)G@B33333G@B33333G@A\G@AzHJ0qG@AzHtr )(hU  
Rr  
)G@ARG@BNzGG@A\)G@A33333J\$zG@A33333tr(hURr)G@A\G@B33333G@AG@BJG@Btr  
)G@B0\G@BffffG@B&ffffG@B  
=qJh2G@B  
=qtr(hURr)G@BQG@C  
=p  
G@Bh\)G@Bp  
=Jxu\*G@Bp  
=tr(hURr)G@C<(\G@CEQG@B=p  
G@C'zHJDG@C'zHtr(hURr)G@BG@CQG@BG@BzGJTIG@BzGtr(hURr)G@B\G@CQG@B  
=qG@BzGJG@BzGtr(hURr)G@C!GzG@CLG@CRG@CFffffJG@CFfffftr(hURr)G@Cj=p  
G@C  
=pG@CS33333G@CqRJtpoG@CqRtr(hURr)G@CQG@C\G@B  
=pG@BGzJG@BGztr(hURr)G@BkQG@CG@BW  
=pG@BJLGG@Btr(hURr )G@BQG@BQG@B\G@BzHJG@BzHtr!(hURr")G@Bp  
=G@BQG@B\G@B\JVG@B\tr(hURr\$)G@BNzGG@BzGG@B'zHG@BgzHJ\$G@BgzHtr%)(hURr&)G@B  
j=p  
G@B\G@B%QG@B@JX=G@B@tr'(hURr)G@BFFFFG@C33333G@B@G@Bp  
=JG@Bp  
=tr)(hURr\*)G@BG{G@CzGG@BG@BRJ  
G@BRtr+)(hURr,)G@BgzHG@BGzG@BffffG@B  
=qJG@B  
=qtr-(hURr.)G@B\G@C#  
=pG@B\G@C J(pG@C tr)(hURr0)G@C\G@CS33333G@B  
=pG@CJtG@Ctr1)(hURr2)G@Cp

=G@C333333G@BzGG@CQJPG@CQtr3)(hURr4)G@C%QG@C@G@B33333G@C,J4uG@C,tr5)(hURr6)G@DeQG@EGzG@Dp  
=G@D`J\$CvG@D`tr7)(hURr8)G@D|(\G@D)\G@D:G{G@DffffJvG@Dfffftr9)(hURr:)G@DzGG@EG@D(\G@DQJ?G@DQtr:)(hURr<)G@D(\G@Ep  
=G@D)\G@EQJ\$mG@EQtr=)(hURr>)G@EnzGG@EffffG@ES33333G@E  
=qJG@E  
=qtr?)G@EG@FQG@Es33333G@EQJpNG@EQtrA)(hURrB)G@EQG@FG@ERG@FJG@FtrC)(hURrD)G@EQG@F#  
=pG@Ep  
=G@EzHJ G@EzHtrE)(hURrF)G@FGzG@FzGG@EzGG@E  
=qJ\_G@E  
=qtrG)(hURrH)G@E=p  
G@F)G@EU(\G@EQJG@EQtrI)(hURrJ)G@EG@FG@EffffG@EffffJ(G@EfffftrK)(hURrL)G@EzHG@F0  
=qG@E!GzG@ES33333J<O2G@ES33333trM)(hURrN)G@EH)\G@E=p  
G@E  
=p  
G@E`J@G@E`trO)(hURrP)G@EqRG@EG@ENzGG@EQJG@EQtrQ)(hURrR)G@EQG@EzHG@Eb(\G@E(\JH  
G@E(\trS)(hURrT)G@EqRG@EG@E%QG@EZG{JPG@EZG{trU)(hURrV)G@E>QG@EzGG@E(\G@E~QJG  
@E~QtrW)(hURrX)G@EG@EG@ENzGG@ES33333J`G@ES33333trY)(hURrZ)G@Ew  
=pG@ERG@EtzGG@E)\JxG@E)\tr](hURr)G@FG@FIRG@EzHG@E  
=qJG@E  
=qtr](hURr^)G@ERG@F(\G@EG@FJ\$8G@Ftr\_)(hURr`)G@EG{G@G(\G@EzGG@GJP3G@Gtra)(hURrb)G@  
G=p  
=G@H\*=p  
G@G9G@G  
=pJ48PG@G  
=ptrc)(hURrd)G@GRG@GG@GG{G@G J \$G@G  
tre)(hURrf)G@G333333G@GQG@G\(\G@G33333JTG@G33333trg)(hURrh)G@GtzGG@GG@FG@G&fffffJ-  
G@G&ffffftri)(hURrj)G@G#  
=pG@GYG@F(\G@F=p  
J6G@F=p  
trk)(hURrl)G@G33333G@G`G@FGzG@F(\J0LG@F(\trm)(hURrn)G@FG@GG@F)\G@FQJtG@FQtro)(hURrp)  
G@FG@G(\G@FQG@F(\J7G@F(\trq)(hURrr)G@G(\G@G>QG@FzHG@GzHJG@GzHtrs)(hURrt)G@G(\G@G  
+QG@FzGG@FQJCG@FQtru)(hURrv)G@F(\G@G  
=pG@FGzG@FQJxG@FQtrw)(hURrx)G@FQG@GeQG@F(\G@GH)\JG@GH)\try)(hURrz)G@GnzGG@G  
=pG@G"(\G@GqRJG@GqRtr})(hURr)G@GG@G(\G@GQG@G!GzJh4G@G!Gztr})(hURr)G@GYG@Hp  
Rr~)G@G&fffffG@GfffffG@G(\G@G(\JyG@G(\tr)(hURr)G@GYG@Hp  
=qG@GfffffG@HfffffJG@Hffffftr)(hURr)G@HfffffG@H33333G@G(\G@HW  
=pJIG@HW  
=ptr)(hURr)G@HG@I(\G@HRG@H  
=pJ~G@H  
=ptr)(hURr)G@I)G@IG@HQG@IzHJOG@IzHtr)(hURr)G@IG@I  
=qG@IJ=p  
G@I33333J\$G@I33333tr)(hURr)G@I(\G@IQG@I)\G@Ih)JG@Ih)\tr)(hURr)G@IzHG@IQG@HG{G@HzGJG@HzGtr)(hURr)G@IG@I  
=pG@H=p  
G@H(J=G@H)\tr)(hURr)G@Ip



=G@IG{G@HG@IG{JdBG@IG{tr}(hU Rr)G@IffffG@JqRG@IffffG@JQRJG@JQRtr)(hU  
Rr)G@J~QG@JzHG@Ju(G@JQJpG@JQtr)(hU Rr)G@JzG{G@JffffG@IzGG@JzGJ,G@JzGtr)(hU Rr)G@I  
=qG@J<(\G@I)G@I33333J\$G@I33333tr)(hU Rr)G@JG@JG@IQG@JJU0G@Jtr)(hU Rr)G@K  
=pG@KGzHG@J)G@JQJd)G@JQtr)(hU Rr)G@J(\G@KQG@J  
=pG@JQJ6G@JQtr)(hU Rr)G@J)G@JzGG@IKQG@I=p  
Jp\_eG@I=p  
tr)(hU Rr)G@Ip  
=G@JKQG@IgzHG@J+QJ  
[G@J+Qtr)(hU Rr)G@J\*=p  
G@J33333G@I  
=qG@JzGJ!G@JzGtr)(hU  
Rr)G@KzGG@KEQG@J  
=pG@K8QJ4G@K8Qtr)(hU  
Rr)G@KyG@KG@JRG@JJ`%G@Jtr)(hU  
Rr)G@K\*=p  
G@K.zGG@J`G@Jc  
=pJLG@Jc  
=ptr)(hU  
Rr)G@JG@JQG@Io(\G@IJ4G@Itr)(hU  
Rr)G@I(\G@I  
=pG@IffffG@IffffJqG@Ifffftr)(hU

Rr)G@IGzG@IzGG@I#  
=pG@I(\JG@I(\tr)(hU  
Rr)G@Ip  
=G@I(\G@I33333G@IQJ  
G@IQtr)(hU  
Rr)G@HS33333G@I&ffffG@G(\G@HJpG@Htr)(hU

Rr)G@HQG@JG@H(\G@JQJtG@JQtr)(hU  
Rr)G@K  
=pG@K,G@JeQG@KJT4G@Ktr)(hU  
Rr)G@Jp  
=G@Kp  
=G@JW  
=pG@JQJ%PG@JQtr)(hU  
Rr)G@JG@JG@JG@JG{J2LG@JG{tr)(hU  
Rr)G@J)G@KzG{G@IG{G@KxQJP%G@KxQtr)(hU  
Rr)G@K<(\G@L@G@K,G@LRJG@LRtr)(hU  
Rr)G@LkQG@L}p  
=G@KzGG@KzGJd.G@KzGtr)(hU  
Rr)G@KG@LeQG@KQG@LeQJLG@LeQtr)(hU  
Rr)G@L33333G@LIG@KQG@LJtyG@Ltr)(hU  
Rr)G@L#  
=pG@LzHG@K(\G@L  
=pJ0XG@L  
=ptr)(hU  
Rr)G@L~QG@LGzG@KzGG@KzGJEG@KzGtr)(hU

Rr)G@LQG@L7  
=pG@K\G@K<(\J0G@K<(\tr)(hU  
Rr)G@KG@Lp  
=G@K`G@LQJ@G@LQtr)(hURr)G@LQG@MRG@Lo\G@LJG@Ltr)(hURr)G@L\G@NG@LG@MJG@Mtr)  
(hURr)G@N!GzG@O(\G@N\G@NJLG@Ntr)(hURr)G@N,G@NQG@M\G@N3333J}G@N3333tr)(hURr)G  
@NIG@N\G@NRG@Np  
=J"\G@Np  
=tr)(hURr)G@MG@N0  
=qG@MG@M3333J.G@M3333tr)(hU Rr)G@NG@NG{G@NG@NzGJR-G@NzGtr)(hU  
Rr)G@NQRG@NG@MGzG@N  
=pJjG@N  
=ptr)(hURr)G@NQG@OzGG@NQG@NQJG@NQtr)(hURr)G@NQG@Np  
=G@NtzGG@NJG@Ntr)(hURr)G@NG@O=p  
G@NG{G@O#  
=pJ\$\$G@O#  
=ptr)(hURr)G@O3333G@PC  
=pG@OQG@P<JG@P<tr)(hURr)G@Pe\G@PxQG@PG@P!GzJpG@P!Gztr)(hURr)G@PS  
=pG@P[QG@PzHG@P#  
=pJG@P#  
=ptr)(hURr)G@P4zGG@PL\G@O\G@P=p  
=JHG@P=p  
=tr)(hURr)G@P5\G@P  
=qG@P!GzG@PGzJ8n&G@PGztr)(hURr)G@PQG@PQG@P\G@P  
=pJG@P  
=ptr)(hURr)G@P=p  
G@Qb\G@PG@QU\JCG@QU\tr)(hURr)G@QzGG@QzGG@QDzGG@Qj=p  
J+G@Qj=p  
tr)(hURr)G@Q\G@Q3333G@PffffG@QffffJG@Qfffftr)(hURr)G@QQG@Q6ffffG@PGzG@PzGJDG@PzG  
tr)(hURr)G@Q<G@QQG@Q3  
=pG@QffffJG@Qfffftr)(hURr)G@RGzG@R\G@QG@R(QJ&G@R(Qtr)(hURr)G@QG@R!RG@Q\G@QzGJ  
X>G@QzGtr)(hURr)\*G@R{QG@RQG@RVffffG@R3333JHG@R3333tr\*(hURr)\*G@RQG@Rp  
=G@RGzHG@R|JhGrG@R|tr\*(hURr)\*G@RLG@RG{G@R&ffffG@RQJLG@RQtr\*(hU Rr)\*G@Rp  
=G@R\G@RVffffG@RQJ.G@RQtr\*(hURr)\*G@RzHG@RffffG@R  
=pG@R=p  
JhG@R=p  
tr \*(hU  
Rr  
\*G@RffffG@Rp  
=G@Rp  
=G@RQJ  
G@RQtr\*(hURr)\*G@R!RG@RS3333G@QGzG@R  
=qJG@R  
=qtr  
\*(hURr)\*G@R+QG@R7  
=pG@QffffG@RQJ1G@RQtr\*(hURr)\*G@R)G@R3333G@Q  
=pG@Q  
=pJ`mG@Q  
=ptr\*(hURr)\*G@Q

=pG@R&ffffG@Q\(\G@QQJhq G@QQtr\*(hURr\*G@QQG@RQG@QzHG@R  
=pJG@R  
=ptr\*(hURr\*G@R&ffffG@Rg  
=pG@R"\(\G@R`JAG@R`tr\*(hURr\*G@Rz=p  
G@R\(\G@RffffG@RGzJG@RGztr\*(hURr\*G@RG{G@R  
=qG@RS33333G@RVffffJ0C)G@RVfffftr\*(hURr\*G@RG@RQG@R|G@RQJAG@RQtr\*(hURr\*G@RzGG@  
R  
=qG@RTzGG@RdzGJG@RdzGtr\*(hURr \*G@RqRG@RtzGG@QG{G@QJ  
G@Qtr!\*(hURr"\*G@Q=p  
G@RQG@Q\(\G@Q)J<2TG@Q)tr#\*(hURr\$\*G@RQG@RG@RG@RJhG@Rtr%\*(hURr&\*G@RQG@RQG@R  
G@RzGJ<QG@RzGtr\*(hURr(\*G@RQG@RG@RpG@RQJpG@RQtr)\*(hURr\*\*G@RG@S,G@R33333G@S333  
33J G@S33333tr+\*(hU Rr,\*G@S.QG@SLG@R\(\G@S33333J8oG@S33333tr-(hU  
Rr.\*G@SG@Tx)G@RQG@T7  
=pJnG@T7  
=ptr/\*(hURr0)\*G@T\(\G@U33333G@T\(\G@TJ  
.G@Ttr1\*(hURr2\*G@U>zGG@UG@TzHG@U\(\J`G@U\(\tr3\*(hU  
Rr4\*G@U?\(\G@U  
=qG@U&ffffG@Ue\(\J  
G@Ue\(\tr5\*(hURr6\*G@UIG@UQG@TzHG@U-p  
=J`G@U-p  
=tr7\*(hURr8\*G@TQG@U33333G@TvffffG@T\(\JKG@T\(\tr9\*(hURr:\*G@TPG@Tj=p  
G@S\(\G@S\(\J)G@S\(\tr;\*(hURr<\*G@SRG@T\(\G@RQG@S\(\JdjG@S\(\tr=\*(hURr>\*G@SffffG@S  
=pG@SG@SjG{JAG@SjG{tr?\*(hURr@\*G@S  
=qG@SG{G@RGzG@S\(\JznG@S\(\trA\*(hURrB\*G@SX)G@S`G@RPG@RJ?G@RtrC\*(hURrD\*G@RRG@RQ  
G@QQG@RQJG@RQtrE\*(hURrF\*G@R<G@RffffG@QffffG@RRJG@RRtrG\*(hURrH\*G@QG{G@S&ffff  
G@QzHG@RjtG@RtrI\*(hURrJ\*G@RG@S\(\G@RpG@R  
=qJDG@R  
=qtrK\*(hURrL\*G@RG@Sp  
=G@R)\G@RG{J(G@RG{trM\*(hURrN\*G@RffffG@R  
=pG@R33333G@RffffJuG@RfffftrO\*(hURrP\*G@R\(\G@R2\(\G@Q\(\G@QffffJl-  
yG@QfffftrQ\*(hURrR\*G@RGzG@R  
=qG@P\(\G@P33333JT\$G@P33333trS\*(hURrT\*G@QGzG@Q^QG@PQG@PffffJLG@PfffftrU\*(hURrV\*G@  
Q\(\G@QEQG@PG@Q3  
=pJgG@Q3  
=ptrW\*(hU RrX\*G@QFffffG@QNQG@P!RG@P<JXrG@P<trY\*(hU  
RrZ\*G@PKQG@PG{G@Os33333G@P  
=pJXbG@P  
=ptr[\*\*(hU  
Rr\\*G@PQG@PG@P\)\G@P-p  
=JwG@P-p  
=tr]\*\*(hURr^\*G@PffffG@QffffG@P@G@P)JTxG@P)tr\_\*(hURr`\*G@P=p  
G@QzHG@PG@QNzGJpxG@QNzGtra\*(hURrb\*G@Qz=p  
G@Q  
=qG@Q^QG@QzGJG@QzGtrc\*(hURrd\*G@Q33333G@Q)\G@Qg  
=pG@Q\(\J9G@Q\(\tre\*(hURrf\*G@Q\(\G@Q33333G@Q+QG@QEQJG@QEQtrg\*(hURrh\*G@Q@G@QG{G@Q  
G@QzGJG@QzGtri\*(hURrj\*G@Q\(\G@R@G@QQG@QJG@Qtrk\*(hURrl\*G@R)\G@R8)\G@QG@Qp  
=Ji#G@Qp  
=trm\*(hURrm\*G@Q\(\G@RzHG@QG@Q\(\J(IG@Q\(\tro\*(hURrp\*G@QQG@RG@QffffG@Q\(\JsG@Q\(\trq\*(hU

Rrr\*G@Q5\G@Q\_\G@QGzG@QFffffJ`?G@QFfffftrs\*(hURrt\*G@Q?\G@Q\G@Q\*G{G@Qg  
=pJ@TG@Qg  
=ptru\*(hURrv\*G@QYG@Qz=p  
G@PRG@PzGJTG@PzGtrw\*(hURrx\*G@P\G@PzGG@P<\G@P^QJ]G@P^Qtry\*(hURrz\*G@Pp  
=qG@PG@PEQG@P  
=pJ8G@P  
=ptr{\* (hURr|\*G@P\G@PG@PVffffG@Pj=p  
J`cG@Pj=p  
tr}\* (hU Rr~\*G@P~QG@PzGG@OzHG@O  
=pJ(G@O  
=ptr\*(hU  
Rr\*G@P33333G@P\G@O9G@OQJw8G@OQtr\*(hU  
Rr\*G@PC33333G@PRG@P2\G@PkQJ\OG@PkQtr\*(hURr\*G@PqGzG@PzGG@P`G@PzGJJG@PzGtr\*(hURr  
\*G@Pp  
=G@Q\G@PaGzG@PQJhG@PQtr\*(hURr\*G@PffffG@PG@P33333G@P  
=pJ@G@P  
=ptr\*(hURr\*G@P0G@Pb\G@P  
=pG@P\*=p  
JG@P\*=p  
tr\*(hURr\*G@PNzGG@P]p  
=G@O\G@OQJtIG@OQtr\*(hURr\*G@P\G@P\G@NRG@NzHJKG@NzHtr\*(hURr\*G@OzGG@OG@N\G@  
N\JttG@N\tr\*(hURr\*G@N\G@N33333G@MzGG@NzGJ  
G@NzGtr\*(hURr\*G@N G@NxQG@M  
=pG@MG{J.HG@MG{tr\*(hURr\*G@N,G@N  
=qG@M33333G@MGzJ[G@MGztr\*(hURr\*G@M  
=qG@NRG@M G@MZG{JDG@MZG{tr\*(hURr\*G@M  
=qG@OB\G@L\G@O\*=p  
JLG@O\*=p  
tr\*(hURr\*G@Oh\G@OffffG@N  
=pG@O`J4G@O`tr\*(hURr\*G@OG@OzGG@OQG@O\JUG@O\tr\*(hURr\*G@O\G@PzHG@ONzGG@OS33  
333J(G@OS33333tr\*(hURr\*G@OG@O\G@NffffG@N\JG@N\tr\*(hURr\*G@P-p  
=G@Pp  
=G@P G@Pp  
=JxG@Pp  
=tr\*(hURr\*G@Q33333G@R33333G@QG@Q\JG@Q\tr\*(hURr\*G@QQG@Qp  
=G@QzGG@Qr\JG@Qr\tr\*(hU  
Rr\*G@Q\G@QQG@QG@Q\*G{Jp`G@Q\*G{tr\*(hURr\*G@Q?\G@QS33333G@PzGG@P\JG@P\tr\*(hURr\*G  
@Q  
=qG@Q  
G{G@P33333G@Pp  
=J5G@Pp  
=tr\*(hU  
Rr\*G@P\G@P\G@Ps  
=pG@PzGJ\$^G@PzGtr\*(hURr\*G@P  
=qG@P\G@PffffG@P3  
=pJIG@P3  
=ptr\*(hURr\*G@PB\G@PzGG@P2\G@PzGJ'G@PzGtr\*(hURr\*G@PzGG@PG@P^zGG@PiJTOG@Pitr\*(hURr  
\*G@Q`

=qG@QG@PG@PQJnG@PQtr\*(hURr\*G@Q(\G@Q(\)G@PzGG@P(\JG@P(\tr\*(hURr\*G@PffffG@PG{G@P`  
G@PpJLG@Pptr\*(hURr\*G@P}p  
=G@P(\G@Pc  
=pG@PG{JP G@PG{tr\*(hURr\*G@PG@QRG@PG@Q JgG@Q tr\*(hURr\*G@PQG@Qw  
=pG@PffffG@QW  
=pJ0G@QW  
=ptr\*(hURr\*G@QXQG@Q33333G@QLG@Q)J0G@Q)tr\*(hURr\*G@QGzG@Q(\G@QJ=p  
G@QffffffJG@Qfffffftr\*(hURr\*G@QG@QQG@Q  
=pG@QzHJG@QzHtr\*(hURr\*G@QQG@QG@QQG@Q)JhavG@Q)tr\*(hURr\*G@QzGG@R8)G@Qp  
=G@QQJTG@QQtr\*(hURr\*G@Q  
=pG@RG@QG@Q)JN3G@Q)tr\*(hURr\*G@R?(\G@Rs33333G@QzGG@Q)J+DG@Q)tr\*(hU  
Rr\*G@QzGG@R#  
=pG@QzHG@QRJD!G@QRtr\*(hU  
Rr\*G@Q(\G@QQG@Qg  
=pG@QffffffJG@Qfffffftr\*(hURr\*G@Q(\G@Q(\G@P33333G@Q JXG@Q tr\*(hURr\*G@PffffG@Q,\G@P  
=pG@PJ4]G@Pptr\*(hURr\*G@PzHG@QQG@PzHG@P(\Ja  
G@P(\tr\*(hURr\*G@QffffffG@QG@P0G@P>QJ{G@P>Qtr\*(hURr\*G@P-p  
=G@PIG@PzGG@PP  
=qJG@PP  
=qtr\*(hURr\*G@PkQG@P  
=qG@O(\G@O  
=pJfG@O  
=ptr\*(hURr\*G@OGzG@P8QG@Oh)G@P  
=qJAG@P  
=qtr\*(hURr\*G@O(\G@OQG@Ob(\G@O  
=qJG@O  
=qtr\*(hURr\*G@P7  
=pG@PL(\G@OG@O33333JlzG@O33333tr\*(hURr\*G@O~QG@O33333G@NzHG@OQJ2G@OQtr\*(hURr\*G@  
P  
=qG@PG@OQG@PQJG@PQtr\*(hURr\*G@P  
=pG@P#  
=pG@ORG@OffffJdG@Offfftr\*(hURr\*G@OQG@OffffG@N(\G@N(\J3G@N(\tr\*(hURr\*G@NGzG@NQG@  
MXQG@M(\JG@M(\tr\*(hURr\*G@MG@O#  
=pG@M(\G@O(\JHG@O(\tr\*(hURr\*G@O~QG@OG@Np  
=qG@NzGJpuG@NzGtr\*(hURr\*G@N33333G@N33333G@M(\G@NJ JG@Ntr\*(hURr\*G@N(\G@NP  
=qG@MtZGG@M(\JG@M(\tr\*(hURr\*G@NG@N333333G@M,G@MGzHJXG@MGzHtr\*(hURr\*G@M8QG@N  
w  
=pG@L33333G@NaGzJTG@NaGztr\*(hU Rr\*G@N  
=pG@NzHG@MG@MQJTG@MQtr\*(hURr+G@M33333G@Mp  
=G@LzG{G@LJ)G@Ltr+(hU  
Rr+G@LzGG@MG@LzGG@M\*=p  
JLG@M\*=p  
tr+(hURr+G@M#  
=pG@Mc  
=pG@LXQG@LzGJG@LzGtr+(hURr+G@LffffG@MQG@L`G@M  
=qJ\$G@M  
=qtr+(hURr+G@MzG{G@MQG@L(\G@LzHJG@LzHtr +(hURr  
+G@L=p

G@M  
=pG@LG@LJG@Ltr+(hURr+G@LzGG@M,G@LQG@L(\JnG@L(\tr  
+(hURr+G@LQG@MZG{G@LffffG@LzGJuG@LzGtr+(hURr+G@MG@MG@M)G@M=p  
Jt:G@M=p  
tr+(hURr+G@M(\G@N(\G@M]p  
=G@Mj=p  
JLgG@Mj=p  
tr+(hURr+G@M(\G@MG@M(\G@M~QJ=G@M~Qtr+(hURr+G@MQG@M(\G@L3333G@L  
=pJ<,G@L  
=ptr+(hURr+G@LQG@LffffG@KzGG@L(\JG@L(\tr+(hURr+G@LaGzG@MQG@L1RG@M(\JG@M(\tr+(hU  
Rr+G@LQG@LG@L@G@L(\J\$G@L(\tr+(hURr+G@L(\G@M  
=pG@LQG@LJD\$jG@Ltr+(hURr  
+G@L3333G@LG@LGzHG@LJ8kG@Ltr!+(hURr"+G@LQG@L3333G@KzGG@K(\JHYG@K(\tr#+(hURr\$  
+G@Kp  
=G@LffffG@KU(\G@K3333JG@K3333tr%+(hU  
Rr&+G@KG@L>QG@K@G@KJpx G@Ktr'+(hURr(+G@KzGG@KQG@KC  
=pG@K3333JG@K3333tr)+(hURr\*+G@K(\G@KQG@Ju(\G@JzG{JZG@JzG{tr++(hU  
Rr,+G@J  
=pG@K(\G@IzGG@J J%G@J tr-(hURr.+G@J@G@JqRG@IzGG@IU\J)G@IU(\tr/(hURr0+G@Ip  
=G@JzGG@I3333G@J(\JT.G@J(\tr1+(hURr2+G@JzGG@JG@IG@Js3333J3!G@Js3333tr3+(hURr4+G@J  
zG{G@K=p  
G@J.zGG@KJG@Ktr5+(hURr6+G@NzG{G@NQG@M(\G@N@J2G@N@tr7+(hURr8+G@M)G@N3333G@  
MRG@N(\J  
G@N(\tr9+(hURr:+G@NGzG@OG@N7  
=pG@N(\JG@N(\tr;+(hURr<+G@N  
=pG@OQG@Nc  
=pG@N  
=pJxAG@N  
=ptr=(hURr>+G@OG@P(\)G@N  
=pG@O(\JG@O(\tr?+(hURr@+G@P  
G@PAGzG@OnzGG@O3333JPG@O3333trA+(hURrB+G@OQG@PkQG@OG@Pe(\J|xG@Pe(\trC+(hURrD+  
G@PQG@Q(QG@PRG@Pp  
=J G@Pp  
=trE+(hURrF+G@PzGG@PQG@P(\G@PQJG@PQtrG+(hURrH+G@PG@Q+QG@P  
=qG@Q  
=p  
J%,G@Q  
=p  
trI+(hURrJ+G@P=p  
G@QG@P  
=pG@Qe(\J4UG@Qe(\trK+(hURrL+G@P3333G@Q'  
=pG@P=p  
=G@Q3333JhG@Q3333trM+(hURrN+G@PzGG@QffffffG@P  
=pG@Pp  
=J(G@Pp  
=trO+(hURrP+G@P(\G@P  
=pG@P  
=qG@P1RJG@P1RtrQ+(hU RrR+G@P[QG@PffffffG@O3333G@OQJG@OQtrS+(hU

RrT+G@OG@P3  
=pG@OYG@PzGJ?|G@PzGtrU+(hURrV+G@Op  
=G@PQG@OJ=p  
G@O33333JDG@O33333trW+(hURrX+G@P33333G@PNzGG@OG@OQJtG@OQtrY+(hURrZ+G@PU\G@P  
G@P333333G@PJhfG@Ptr[(hURr\+G@PffffG@QzGG@PQG@PQJG@PQtr]+(hURr^+G@QG@Q\*=p  
G@PQG@P\Jd<G@P\tr\_+(hURr'+G@Pp  
=G@QG@P  
=qG@P=p  
J,J\$G@P=p  
tra+(hURrb+G@P33333G@P  
=pG@PG@P  
=pJHG@P  
=ptrc+(hURrd+G@PQG@QzGG@PG@PzHJ0l:G@PzHtre+(hURrf+G@QG@Q)G@P\G@P  
=pJ<\$G@P  
=ptrg+(hURrh+G@P\G@Q\G@PGzG@P  
=pJ  
eG@P  
=ptri+(hURrj+G@P\G@QC33333G@P  
=pG@Q0Jo(G@Q0trk+(hURrl+G@Q G@Q'  
=pG@PQG@PQJDG@PQtrm+(hURrn+G@P\G@P  
=qG@PGzHG@PQJTAG@PQtro+(hURrp+G@P\G@PzGG@PQG@Pp  
=JrG@Pp  
=trq+(hURrr+G@PRG@Q33333G@P=p  
G@PffffJd/9G@Pfffftrs+(hU Rrt+G@QQG@Q)G@PzGG@QQJG@QQtru+(hU  
Rrv+G@Q>zGG@QG@Q#33333G@QQJ'G@QQtrw+(hU Rrx+G@QQG@Q\G@QIG@QRJG@QRtry+(hU  
Rrz+G@QffffG@R^QG@QG@R333333JhG@R333333tr{+(hU Rr|+G@RWzHG@RdzGG@Q=p  
G@R!GzJ=G@R!Gztr}+(hU Rr~+G@RQG@RnQG@QG{G@R JT;G@R tr+(hU Rr+G@R3  
=pG@R\G@QG@R(QJG@R(Qtr+(hU  
Rr+G@R6ffffG@RzGG@R33333G@RJpG@Rtr+(hU Rr+G@RnzGG@RG{G@R]p  
=G@RG{JpG@RG{tr+(hU Rr+G@RffffG@RQG@RR\G@RffffJXG@Rfffftr+(hU Rr+G@Rs33333G@R  
=pG@RS33333G@Rx\JXG@Rx\tr+(hU Rr+G@RffffG@R  
=pG@R333333G@RqGzJ4G@RqGztr+(hU Rr+G@RQG@RQG@RzGG@R  
=qJbG@R  
=qtr+(hU Rr+G@RG@S  
=pG@RGzG@RJG@Rtr+(hU Rr+G@R33333G@R\G@R%QG@R@JujG@R@tr+(hU Rr+G@Rs  
=pG@R  
=pG@RnzGG@RJG@Rtr+(hU Rr+G@SQG@SqRG@SffffG@Sg  
=pJYG@Sg  
=ptr+(hU Rr+G@SJG{G@S^zGG@RzGG@S=p  
JLG@S=p  
tr+(hU Rr+G@SAGzG@S^QG@RG@S@  
=qJVG@S@  
=qtr+(hU Rr+G@SG  
=pG@SaGzG@S+QG@S>QJt&G@S>Qtr+(hU  
Rr+G@RffffG@RzHG@R33333G@R  
=pJ[G@R  
=ptr+(hU  
Rr+G@RG@RG@RL\G@RQJG@RQtr+(hU

Rr+G@RffffG@Rp  
=G@RJ=p  
G@RQJtG@RQtr+(hU  
Rr+G@RRG@S  
=p  
G@RQG@RQJtG@RQtr+(hU  
Rr+G@RG{G@R}(G@Rs  
=pG@RzGJxG@RzGtr+(hU  
Rr+G@Rs33333G@RQG@RaRG@RQJG@RQtr+(hU

Rr+G@R}(G@RQG@REQG@Rs  
=pJT!G@Rs  
=ptr+(hU  
Rr+G@RZG{G@R~QG@R&ffffG@RNQJ7G@RNQtr+(hU  
Rr+G@Rg  
=pG@R)G@RffffG@R  
=qJCG@R  
=qtr+(hU

Rr+G@RQG@S8QG@R}(G@RGzJtG@RGztr+(hU  
Rr+G@R}(G@RQG@R}(G@RJ07G@Rtr+(hU  
Rr+G@R}(G@RGzG@R}(G@R}(J)G@R}(tr+(hU  
Rr+G@RG@RzHG@Rz=p  
G@RRJ<iG@RRtr+(hU  
Rr+G@S  
=qG@SG@S=p  
G@S}(J8G@S}(tr+(hU  
Rr+G@SzGG@S}(G@SG{G@SJs}G@Str+(hU  
Rr+G@S}(G@TyG@SG@T]p  
=J0G@T]p  
=tr+(hU  
Rr+G@TMp  
=G@TkQG@TG@TC33333JDnG@TC33333tr+(hU  
Rr+G@TVffffG@TG@T@  
=qG@TkQJkG@TkQtr+(hU  
Rr+G@TyG@TffffG@THQG@T(\JpG@T(\tr+(hU  
Rr+G@TpG@TG@T  
=qG@T=p  
J ;DG@T=p  
tr+(hU  
Rr+G@S}(G@T9G@SG@TG{JnG@TG{tr+(hU  
Rr+G@T)G@TkQG@TQG@TEQJ(HG@TEQtr+(hURr+G@TFffffG@TXQG@S  
=pG@S=p  
JMG@S=p  
tr+(hURr+G@SG{G@SzGG@SG@SQJG@SQtr+(hURr+G@S  
=pG@SRG@Sr}(G@S}(JX)G@S}(tr+(hURr+G@SG@T  
=pG@SQG@Sp  
=JXG@Sp



=tr+(hURr+G@TG@T@G@TQG@T  
=qJDG@T  
=qtr+(hURr+G@TGzG@T(\G@S)G@TJxG@Ttr+(hU Rr+G@TG@U,(\G@TzHG@T\J8G@T\tr+(hU  
Rr+G@T33333G@TffffG@TG@TzHJIG@TzHtr+(hU  
Rr+G@TzGG@UG@T)G@UffffJG@Ufffftr+(hURr+G@U33333G@U@G@TG@U@Jt@G@U@tr+(hURr+  
G@UC33333G@UyG@UG@U33333JpeG@U33333tr+(hURr+G@U7zHG@U33333G@UzHG@Ug  
=pJ\*zG@Ug  
=ptr+(hURr+G@UH)G@U(\G@U@G@UvffffJP.G@Uvfffftr+(hURr+G@UYG@UG@ULG@UzGJ7G@UzGt  
r+(hURr+G@UG{G@V&ffffG@U  
=pG@V&ffffJSSG@V&fffftr+(hURr+G@V?(G@VG@UffffG@V  
=pJ-nG@V  
=ptr+(hURr+G@VaRG@WEQG@V`G@VQJ(G@VQtr+(hURr+G@W  
=qG@WJ=p  
G@V`G@Vb\J8IG@Vb\tr+(hURr+G@V  
=pG@VzGG@Vz=p  
G@V  
=pJx4G@V  
=ptr+(hURr+G@W@G@WIG@VG@V33333JpvG@V33333tr+(hURr+G@W  
p  
=G@W+QG@V  
=pG@V=p  
J`G@V=p  
tr+(hURr+G@V33333G@WQG@VffffG@VzGJHG@VzGtr+(hURr+G@VQG@W33333G@VG@VzHJG@Vz  
Htr+(hURr+G@VG@WQG@VzHG@VGzJ7iG@VGztr+(hURr+G@V)G@V)G@VjG{G@VuQJl[G@VuQtr+(h  
URr+G@VRG@VG@UG@U\Jl#G@U\tr+(hURr+G@UQG@VX)G@UG@V  
=qJeG@V  
=qtr+(hURr+G@V9G@VS33333G@V33333G@V0J[G@V0tr+(hURr,G@V'  
=pG@V5(G@UaRG@U)Jv/G@U)tr,(hU  
Rr,G@UG@VDzGG@UG@VC33333JhG@VC33333tr,(hURr,G@VC33333G@VG@V  
=qG@V#33333JG@V#33333tr,(hURr,G@VAGzG@VNzGG@UQG@UzGJ  
<G@UzGtr,(hURr,G@UQG@VG@U%(\G@U^zGJh:G@U^zGtr ,(hURr  
,G@U.QG@UQG@TzHG@U  
=pJ8G@U  
=ptr,(hURr,G@UzGG@UG{G@U^(G@U0  
=qJ^5G@U0  
=qtr  
,(hURr,G@U,G@U^QG@TG@TJlG@Ttr,(hURr,G@Tp  
=G@U(\G@TffffG@TJT9NG@Ttr,(hURr,G@TG@TzGG@T8)G@T`  
=qJxgG@T`  
=qtr,(hURr,G@SG@TG@S1GzG@TaGzJG@TaGztr,(hURr,G@TzGG@TPG@SG@T7zHJHbG@T7zHtr,(hURr,  
G@TG@UYG@T  
=pG@U5(JJG@U5\tr,(hURr,G@U(\G@UQG@TyG@T33333JG@T33333tr,(hURr,G@U33333G@U|G@TzGG  
@Uj=p  
JdG@Uj=p  
tr,(hURr,G@UqGzG@UG@UG@UC33333JG@UC33333tr,(hURr ,G@U}p  
=G@URG@UQRG@U^zGJcG@U^zGtr!,(hU Rr",G@UG@W>QG@UIG@W\$zGJ9!G@W\$zGtr#,(hU  
Rr\$,G@WG@Xs33333G@W\G@X@J IIG@X@tr%,(hURr&,G@W(\G@X1RG@WffffG@W33333J  
G@W33333tr',(hURr,G@W\G@W

=pG@WNQG@WzHJ\G@WzHtr),(hURr\*,G@WQG@XPG@WG@XFffffJG@XFfffftr+,(hURr.,G@Xc  
=pG@XffffffG@WzGG@WJ#G@Wtr-,(hURr.,G@WffffG@W  
=pG@VC33333G@VDzGJG@VDzGtr/, (hURr0,G@V(QG@ViG@VzHG@V J@G@V  
tr1,(hURr2,G@VH)\G@VJ=p  
G@UiG@U\JaG@U\tr3,(hURr4,G@UnQG@U  
=qG@U`  
=qG@UIJG@Ultr5,(hURr6,G@UQG@UG@UQG@UJHG@Utr7,(hURr8,G@U  
=pG@V G@URG@UJhG@Utr9,(hURr.,G@U  
=pG@UzHG@U?(G@UXQJG@UXQtr.,(hURr<,G@U33333G@UG@UaRG@U|(J<^G@U|(\tr=,(hURr>,G@U  
QG@U\G@UPG@Uc33333J:G@Uc33333tr?,(hURr@,G@U7  
=pG@UG@UffffG@UnQJLG@UnQtrA,(hURrB,G@UQG@UGzG@U^(G@U^(J  
jG@U^(trC,(hURrD,G@UzHG@UPG@TG@U0JRG@U0trE,(hURrF,G@U33333G@UNQG@T(G@T(\Js;G@T  
(\trG,(hURrH,G@UG@UzGG@T  
=pG@U JG@U trI,(hURrJ,G@UQG@UQG@T33333G@UJ\_EG@UtrK,(hURrL,G@U[QG@U  
=qG@UZ=p  
G@UQJ  
rG@UQtrM,(hU RrN,G@UxQG@UG@Tp  
=G@TGzJ G@TGztrO,(hURrP,G@UQG@UKQG@TQG@U8QJtG@U8QtrQ,(hU  
RrR,G@UJ=p  
G@UR\G@U33333G@U,J<G@U, trS,(hURrT,G@U(QG@Uh)G@U\$zGG@US33333JG@US33333trU,(hURrV,  
G@U\G@UgzHG@U1RG@UMp  
=J-G@UMp  
=trW,(hURrX,G@UPG@UZ=p  
G@U\*=p  
G@U5QJ(G@U5QtrY,(hURrZ,G@U)G@U=p  
G@U  
=p  
G@UyJPG@Uytr[(hURr\,G@U~QG@V\_(G@U)p  
=G@VLJuG@VLtr],(hURr^,G@V33333G@V  
=pG@V!RG@V`  
=qJG@V`  
=qtr\_(hURr`,G@VJ=p  
G@V\G@V6ffffG@VDzGJ:G@VDzGtra,(hURrb,G@Vu(G@VG@U  
=pG@V  
=qJhOG@V  
=qtrc,(hURrd,G@U33333G@UQG@T=p  
G@TQJ,kpG@TQtre,(hURrf,G@TG@UffffG@TG@U'  
=pJG@U'  
=ptrg,(hURrh,G@URG@V  
=pG@TG@U  
=pJfG@U  
=ptri,(hURrj,G@UGzG@U\G@UMp  
=G@UZ=p  
JG@UZ=p  
trk,(hURrl,G@Ux)\G@V)G@Up  
=qG@UzGJ)G@UzGtrm,(hURrm,G@U33333G@V  
=pG@UG@V(\JG@V\tro,(hURrp,G@V33333G@V>zGG@UG@UzGJDLUG@UzGtrq,(hURrr,G@V%\G@V.z  
GG@Up

=G@VJzG@Vtrs,(hU  
Rrt,G@V333333G@V6ffffG@UG@UzGJ(;G@UzGtru,(hURrv,G@VzGG@V\(\G@U\(\G@VwzHJ~G@VwzHtrw  
,(hU  
Rrx,G@VZ=p  
G@VffffG@VG@VJG@Vtry,(hURrz,G@V&ffffG@VG@UG{G@VJG@Vtr{,(hURr|,G@V}p  
=G@V  
=pG@VS  
=pG@VdzGJ0G@VdzGtr},(hURr~,G@Vb\(\G@V\(\G@VTzGG@Ve\(\J7G@Ve\(\tr,(hURr,G@V\(\G@V333333G@  
Ve\(\G@VQJtG@VQtr,(hURr,G@VffffG@V\(\G@V  
=pG@VQJ4p  
G@VQtr,(hURr,G@V\(\G@WG@VG@WwzHJ TvG@WwzHtr,(hURr,G@WnQG@W  
=pG@W@G@W}p  
=J41G@W}p  
=tr,(hURr,G@WVffffG@WzGG@WS333333G@WaGzJXG@WaGztr,(hURr,G@W\(\G@WG@WS333333G@Wfff  
ffJpaG@Wfffftr,(hURr,G@Wp  
=G@X5QG@WG@Wp  
=JG@Wp  
=tr,(hURr,G@WQG@WG@WIG@WO\(\JtG@WO\(\tr,(hURr,G@W\(\G@W\(\G@WQG@WpJG@Wptr,(hURr,G  
@WRG@WQG@W0G@W:=p  
J4GGG@W:=p  
tr,(hURr,G@W\)\G@WG@WAGzG@WiJIG@Witr,(hURr,G@W\)\G@WQG@Wp  
=qG@WJ8>G@Wtr,(hURr,G@W\(\G@W\)\G@WQG@WgZJG@WgZtr,(hURr,G@WzHG@WQG@WaGzG@W  
QJG@WQtr,(hU Rr,G@Wp  
=G@W333333G@WB\(\G@WiJ@G@Witr,(hU  
Rr,G@WjG{G@W  
=qG@WZ=p  
G@WJDG@Wtr,(hURr,G@WyG@W\G@WQG@W%\(\J0+G@W%\(\tr,(hURr,G@W\(\G@W  
=pG@VzGG@W\(\JeG@W\(\tr,(hU  
Rr,G@VG@VG@V  
=pG@V\(\JHVG@V\(\tr,(hURr,G@VzGG@VG@VG@VQJKG@VQtr,(hURr,G@WG@W333333G@VIG@VffffJ  
G@Vfffftr,(hURr,G@V=p  
G@VffffG@VffffG@VJHG@Vtr,(hURr,G@V\(\G@VG@VuQG@VGzJG@VGztr,(hURr,G@V\)\G@VQG@V  
333333G@VzGJIG@VzGtr,(hURr,G@V\(\G@Ws333333G@VG{G@W`  
=qJ19G@W`  
=qtr,(hURr,G@W}p  
=G@X\)\G@V333333G@WO\(\J0?G@WO\(\tr,(hURr,G@WQG@WG@Ws333333G@WffffJ0G@Wfffftr,(hURr,G  
@YeQG@YG@X333333G@X\(\JG@X\(\tr,(hURr,G@XQG@XG@Xl\(\G@XG{J%}G@XG{tr,(hURr,G@Y\(\G@Y  
@G@XG{G@X333333JOG@X333333tr,(hURr,G@X\(\G@YffffG@X333333G@XzGJ3"G@XzGtr,(hURr,G@XG  
@Y"\(\G@XzGG@Y)JDHG@Y)tr,(hURr,G@Y.QG@Y\G@Y  
=qG@YJ9G@Ytr,(hURr,G@Y333333G@YffffG@Y G@Y3  
=pJ\*G@Y3  
=ptr,(hURr,G@YEQG@ZffffG@Y@  
=qG@YG{JG@YG{tr,(hURr,G@YzGG@ZIG@YG{G@ZC  
=pJ>G@ZC  
=ptr,(hU Rr,G@Z:=p  
G@Zp  
=G@Z8)\G@ZQJ%G@ZQtr,(hU  
Rr,G@ZQG@[5\(\G@ZzG{G@Z\(\J

tG@Z\tr,(hURr,G@Z\G@[HQG@ZRG@[^\(J)<dG@[^\(tr,(hURr,G@[gzHG@[G@[G@[W  
=pJXHcG@[W  
=ptr,(hURr,G@[dzGG@[G@ZQG@ZGzJH+G@ZGztr,(hURr,G@[!RG@[5QG@YG{G@Z\J\$  
fG@Z\tr,(hURr,G@ZG@[wzHG@ZG@[^\(JG@[^\(tr,(hURr,G@[QG@[^\)G@[qGzG@[GzJ4RG@[Gztr,(hURr,G  
@[  
=pG@G@[33333G@[QJ\G@[Qtr,(hURr,G@[^\(G@pG@\  
=qG@b\J@7G@b\tr,(hURr,G@GzG@G@%\G@8)JG@8)tr,(hURr,G@3  
=pG@p  
=G@[zHG@[^\(JG@[^\(tr,(hURr,G@G@qRG@[G@gzHJXG@gzHtr,(hURr,G@G@\  
=pG@,\G@ffffJ\_G@fffftr,(hURr,G@33333G@[QG@aRG@]GzJ@%G@]Gztr,(hURr,G@^zGG@^G{G@]  
(G@^L(JXG@^L\tr,(hURr,G@^FffffG@^L\G@)\G@]JmG@]tr,(hURr,G@]QG@^nQG@]yG@^UQJ2G@^U  
Qtr,(hURr,G@^Z=p  
G@^\G@^G@^G{JG@^G{tr,(hURr,G@^33333G@\_33333G@^G@^J^G@^tr,(hURr,G@\_?(G@\_  
=pG@^\G@\_zGJG@\_zGtr,(hURr,G@\_tzGG@\_uQG@^\(G@\_\(JG@\_\(tr,(hURr,G@\_G@\_G@)\(G@^\(JcG@^\(  
\tr,(hURr,G@]ffffG@^mp  
=G@]  
=pG@^QJj G@^Qtr,(hU  
Rr,G@^IG@^L\G@G@]`J\$G@]`tr,(hURr,G@]LG@]G@]G{G@]JLcG@]tr,(hURr,G@^zHG@^\*G{G@]  
=pG@^JDG@^tr,(hURr,G@^RG@\_KQG@^\(G@\_E\J=G@\_E\tr,(hURr-G@\_,\G@\_@  
=qG@^=p  
G@^=p  
JG@^=p  
tr-(hURr-G@^zHG@\_\*=p  
G@^G@^c33333JG@^c33333tr-(hURr-G@^IG@\_^\(G@^zGG@^JG@^tr-(hURr-  
G@^ffffG@\_G@^QG@^JXXXG@^tr-(hURr-G@\_^\(G@\_E\G@^C  
=pG@^\(JIG@^\(tr-(hURr  
-G@^QG@\_G@]zGG@]J<G@]tr-(hURr-G@^  
=pG@^\(G@]  
=qG@^x)J\*G@^x)tr  
-(hURr-G@^  
=pG@^\(G@^G@^#  
=pJG@^#  
=ptr-(hURr-G@^~zGG@\_G@^E\G@^\(JIG@^\(tr-(hURr-G@^C33333G@^\(G@]33333G@^P  
=qJ0(G@^P  
=qtr-(hURr-G@^G@\_G@^G@\_G{JyG@\_G{tr-(hURr-G@`G@`  
=pG@`zGG@`JG@`tr-(hURr-G@`\G@`G{G@`LG@`JG@`tr-(hU Rr-G@`\G@`G@`%\G@`J\JG@`J\tr-(hU  
Rr-G@`\G@`G@`RG@`33333JG@`33333tr-(hURr-G@`=p  
G@`ffffG@`iRG@`zGJG@`zGtr-(hURr-G@`33333G@`zHG@`zGG@`=p  
J8G@`=p  
tr!-(hU  
Rr"-G@`)G@a;33333G@`  
=qG@a7\J\$G@a7\tr#-(hURr\$-G@aLzGG@a\G@a0G@aC33333J\$G@aC33333tr%-(hURr&-  
G@aIG@a33333G@a0G@a]QJG@a]Qtr'-(hURr(-G@aFzGG@aNzGG@aGzG@aC  
=pJHtG@aC  
=ptr)-(hURr\*-G@aG@aRG@atG@aJdG@atr+-(hURr,-G@aG@b\G@aG@aJb\G@atr--(hURr.-G@aRG@b'  
=pG@a\G@aaffffJ4G@aafffftr-(hURr0-G@a\G@aG@`G@`zGJ[G@`zGtr1-(hURr2-  
G@a+33333G@aKQG@`G@a(QJZ/G@a(Qtr3-(hURr4-G@b=QG@bG@aQG@b@JLG@b@tr5-(hURr6-  
G@bFzGG@bp

=G@a)G@a33333JxG@a33333tr7-(hURr8-G@b  
\G@a(JB[G@a(tr9-(hURr:-G@a  
=pG@a(G@`p  
=qG@`xQJmG@`xQtr;-(hURr<-G@`zGG@`(\G@\_GzG@`JG@`tr--(hURr>-G@aG@aQG@`G@azHJG@azHtr?-  
(hURr@-G@`QG@`ffffG@`pG@`{33333J rG@`{33333trA-(hURrB-G@`G@`  
=qG@`G@`J-G@`trC-(hURrD-G@`zGG@a'zHG@`(\G@`)JG@`)trE-(hURrF-  
G@aQG@aQG@`G@`QJ'G@`QtrG-(hU RrH-G@`cQG@`G@\_E(\G@\_)JJeG@\_)trI-(hU  
RrJ-G@^zHG@\_G@^33333G@\_@JG@\_@trK-(hU  
RrL-G@`  
=p  
G@`+33333G@\_G@\_(JMG@\_(trM-(hURrN-G@`GzG@`G@^p  
=G@\_RjG@\_RtrO-(hURrP-G@^(G@\_7  
=pG@]G@]JG@]trQ-(hURrR-G@]@  
=qG@]G@[zHG@]C33333JCG@]C33333trS-(hURrT-G@^  
=qG@^G@]zGG@^  
=pJAG@^  
=ptrU-(hURrV-G@^p  
=G@\_G@^G@^zGJG@^zGtrW-(hURrX-G@^p  
=G@`QG@^@G@\_zGJG@\_zGtrY-(hURrZ-G@`g  
=pG@`G@`J(\G@`QJBG@`Qtr[-(hURr)-G@`G{G@`G{G@`8QG@`b=p  
JcG@`b=p  
tr]- (hURr^G@`P)G@`  
=pG@`9RG@`JG@`tr\_-(hURr`-G@`zGG@`QG@`33333G@`J\$G@`tra-(hURrb-  
G@`\_zHG@`QG@\_QG@\_zGJG@\_zGtrc-(hURrd-G@`<(\G@`)(G@`1GzG@`)(J{G@`)(tre-(hURrf-G@`p  
=G@aHG@`G@aJTG@atrg-(hURrh-G@aogHG@atG@a-QG@aO(\JG@aO)(tri-(hU Rrj-  
G@a~zGG@b7(\G@azG{G@bQJTG@bQtrk-(hU Rrl-G@b  
=pG@b:G{G@a33333G@aQJG@aQtrm-(hU Rrn-G@`RG@a2=p  
G@`QG@`QJG@`Qtro-(hU Rrp-G@`QG@`G@`@G@`x  
=qJ G@`x  
=qtrq-(hU  
Rrr-G@azHG@aAGzG@`ffffG@aQJ\*G@aQtrs-(hU Rrt-G@a<G@aIG@`G@`zHJG@`zHtru-(hU Rrv-  
G@`zHG@alG@`G@a33333J]-G@a33333trw-(hU  
Rrx-G@aZ(\G@a`G@aG@a&ffffJeG@a&ffffftry-(hU Rrz-G@a=p  
G@a\_(\G@affffG@aYRJJG@aYRtr{-(hU Rrj-G@a\_zHG@aG{G@a333333G@aMQJIZG@aMQtr)-(hU Rr~-  
G@aaRG@a33333G@a:(G@ap  
=JCG@ap  
=tr-(hU Rr-G@a  
=qG@aQG@alG@a  
=qJ/G@a  
=qtr-(hU Rr-G@aG@aGzG@aj=p  
G@aRjyG@aRtr-(hU Rr-G@azGG@bG@aRG@bJIG@btr-(hU Rr-G@bW(\G@b33333G@bTG@b)Ja=G@b)tr-  
(hU Rr-G@bZG{G@c'  
=pG@bZ=p  
G@c%\JG@c%\tr-(hU Rr-G@cO  
=pG@c`G@bG@c  
=qJzG@c  
=qtr-(hU Rr-G@c8

=qG@cP  
=qG@c  
=p  
G@cPJfG@cPtr-(hU Rr-G@c.zGG@cS33333G@cG@c/  
=pJ4OG@c/  
=ptr-(hU  
Rr-G@cT(\G@cQG@c\(\G@cG{J\*G@cG{tr-(hU  
Rr-G@cG@cG{G@c|zGG@cffffJG@cfffftr-(hU  
Rr-G@c\)\G@c\(\G@cQG@cp  
=JdyG@cp  
=tr-(hU  
Rr-G@cG@c\(\G@c0G@czHJfG@czHtr-(hU  
Rr-G@c  
=pG@d2\(\G@cffffG@d.ffffJ&G@d.fffftr-(hU  
Rr-G@dozHG@dQG@d\_  
=pG@dQJG@dQtr-(hU  
Rr-G@eFffffG@ecQG@d\(\G@dQJYG@dQtr-(hU  
  
Rr-G@dG@d\(\G@d33333G@dGzJkG@dGztr-(hU  
Rr-G@e/zHG@e\(\G@c&QG@dG\JG@dG\tr-(hU  
Rr-G@d`QG@d)\G@d9G@dJ`G@dtr-(hU  
Rr-G@d\(\G@e2=p  
G@dpG@d\JIKG@d\tr-(hU  
Rr-G@dGzG@eE\(\G@dG@e2\JEG@e2\tr-(hU  
Rr-G@ezGG@eGzG@e%\(\G@eJfG@etr-(hU  
Rr-G@epG@ezGG@eaG@eJ(G@etr-(hU  
Rr-G@ezHG@e\(\G@e@G@eMp  
=JG@eMp  
=tr-(hU  
Rr-G@eK33333G@eG@e>QG@eQJG@eQtr-(hU  
Rr-G@gRG@g33333G@fQG@gEQJhIG@gEQtr-(hU  
Rr-G@g9RG@gfQG@gfzHG@g=\(J\*G@g=\tr-(hU  
Rr-G@g  
=pG@g<G@fQG@f)J,G@f)tr-(hU  
Rr-G@g)GzG@g+  
=pG@f\(\G@gffffJG@gfffftr-(hU  
Rr-G@g.ffffG@gRG{G@gffffG@g"G{J&G@g"G{tr-(hU  
Rr-G@gE\(\G@g  
=pG@g\(\G@g`JG@g`tr-(hU  
Rr-G@g\(\G@g  
=pG@gffffG@gffffJLG@gfffftr-(hURr-G@g33333G@g33333G@fG@gnzGJG@gnzGtr-(hURr-  
G@gQG@gzGG@fzHG@g{  
=pJ"G@g{  
=ptr-(hURr-G@g)GzG@gQG@gzHG@gE\J=G@gE\tr-(hURr-G@gG@hG@g(  
=qG@gGzJHG@gGztr-(hURr-G@gQG@h\(\G@gD\(\G@gIJGG@gItr-(hURr-G@gUp  
=G@g\G@d  
=qG@e  
=pJUG@e

=ptr-(hU Rr-G@edG@e  
=pG@dQG@d  
=pJL>G@d  
=ptr-(hURr-G@d)G@dffffG@b(\G@c8QJ\$/G@c8Qtr-(hU  
Rr-G@d33333G@e\_(G@c8QG@e>QJG@e>Qtr-(hURr-G@f%QG@f2=p  
G@dwzHG@dQJ(G@dQtr-(hURr-G@dzGG@e2G{G@d G@dJ,\*G@dtr-(hURr-G@dG@d  
=qG@e\(\G@dzGJG@dzGtr-(hURr-G@d33333G@effffG@dC33333G@d~ffffJtG@d~fffftr-(hURr-G@dp  
=G@eyGzG@dp)\G@e33333J7IG@e33333tr-(hURr-G@dG{G@e33333G@dp  
=G@eQJPG@eQtr-(hURr-G@eG@eG@e8G@eqGzJXG@eqGztr-(hURr-G@eG{G@f(  
=qG@e33333G@eGzJtG@eGztr-(hURr-G@e  
=pG@eGzG@e@QG@eRJG@eRtr-(hURr-G@f=p  
G@f33333G@e33333G@f  
=pJ2sG@f  
=ptr-(hURr-G@fm)\(G@g%p  
=G@fdG@g GzJ<G@g Gztr-(hURr-G@gjG{G@gvffffG@fvffffG@f  
=pJLG@f  
=ptr-(hURr-G@fQG@gzGG@f6ffffG@f[QJG@f[Qtr-(hURr-G@f\$G@fG@fzHG@fyRJG@fyRtr-(hURr-  
G@fzGG@g@G@fQG@g0JRG@g0tr-(hURr-G@gFzGG@g33333G@gC  
=pG@gffffJ[G@gfffftr-(hURr-G@gGzG@h\_zHG@gGzG@hIJDG@hItr-(hU  
Rr-G@h2G{G@huQG@hzGG@hFQJ G@hFQtr-(hURr-G@hXG@h\(\G@glzGG@gGzJg]G@gGztr-(hURr-  
G@h.zGG@hO\(\G@g8QG@gQJG@gQtr-(hU  
Rr-G@gzGG@h  
=pG@gz=p  
G@g\(\J-G@g\tr-(hURr-G@g  
=pG@h&ffffG@gGzG@gzGJxoG@gzGtr-(hURr-G@g  
=pG@hG@f(\G@gJi.G@gtr-(hURr-G@gP  
=qG@gj\(\G@fS33333G@f(\JDG@f\tr-(hURr.G@f(\G@gzGG@fG@f  
=pJG@f  
=ptr.(hURr.G@g-\(\G@gz\(\G@f\(\G@gfQJG@gfQtr.(hURr.G@g  
=pG@h=QG@gzGG@h=QJhG@h=Qtr.(hURr.G@h`)G@h\(\G@hYGzG@hJG@htr.(hURr.G@hQG@iQG@h=p  
G@hffffJG@hfffftr.(hURr  
.G@hffffG@i^QG@hG@h=p  
J4G@h=p  
tr.(hURr.G@iG{G@i1RG@h\(\G@h\(\JG}G@h\tr  
.hURr.G@hG@iG@hG@h\(\J%G@h\tr.(hURr.G@h  
=qG@iQG@hG@hZG{JLG@hZG{tr.(hURr.G@hmQG@hzGG@hzGG@h\(\JG@h\tr.(hURr.G@gffffG@h  
G@fzGG@fJ]G@ftr.(hURr.G@fG@f33333G@eG\(\G@f4zGJtAiG@f4zGtr.(hURr.G@fzGG@fQG@eYG@ehJi>  
G@ehtr.(hU Rr.G@eiG@fpG@e G@fJ]G@ftr.(hU  
Rr.G@f2\(\G@fG@eQG@f@  
=qJH(\G@f@  
=qtr.(hURr.G@fG@f;33333G@e@G@ezGJG@ezGtr.(hURr .G@f0  
=qG@fmp  
=G@ep  
=G@fX)JWG@fX)tr!.hURr".G@f7  
=pG@fg  
=pG@dQG@e!GzJ4G@e!Gztr#.hURr\$.G@d\(\G@e  
QG@cffffG@czGJ,sG@czGtr%.hURr&.G@d0QG@dQG@cp  
=G@dzGJG@dzGtr'.hURr(.G@d6QG@dG@cQG@d+QJTG@d+Qtr).(hURr\*.G@bRG@c\(\G@b@G@ctzGJ.G

@ctzGtr+. (hURr,.G@azGG@aG@\_)G@ab=p  
J.G@ab=p  
tr-  
. (hURr..G@azHG@affffG@`QG@`33333JTEG@`33333tr/. (hURr0.G@a\_zHG@abG{G@`3QG@`@QJDOG@`  
@Qtr1. (hURr2.G@`QG@`ffffG@\_G@`@QJ#G@`@Qtr3. (hURr4.G@dG@`GzG@`!G@`qGzJlqWG@`qGztr5. (  
hURr6.G@`k  
=pG@`ffffG@`@G@`\JhG@`\tr7. (hURr8.G@`.ffffG@aG@`,G@`QJUG@`Qtr9. (hURr:.G@azHG@aG{G@`\(  
G@`J&G@`tr;. (hURr<.G@`QG@`G@`mp  
=G@`tJ,G@`ttr=. (hURr>.G@`M\ (G@`G@`G@`+QJmG@`+Qtr?. (hURr@.G@`Z\ (G@` }p  
=G@`^qGzG@`^J]YG@`^trA. (hURrB.G@]zGG@`\_1RG@]QGzG@`^O\ (J\SoG@`^O\ (trC. (hURrD.G@`QG@`\_IG@`^f  
ffffG@`\_AQJPG@`\_QtrE. (hURrF.G@`QG@`?\ (G@`\_G@`.ffffJG@`.fffftrG. (hURrH.G@`VffffG@`G@`^zHG  
@\_7  
=pJ(G@\_7  
=ptrI. (hU  
RrJ.G@\_QG@`8)G@\_hQG@`,`J\$G@`,`trK. (hURrL.G@`,`G@`YG@\_  
=qG@\_p  
=JG@\_p  
=trM. (hURrN.G@\_GzG@\_QG@\_  
=pG@`\_ (QJt+G@\_ (QtrO. (hURrP.G@\_ (G@\_G@`^ (G@`^QJ#G@`^QtrQ. (hURrR.G@`^G@`\_&ffffG@`^kQG@`^zG  
Jh6G@`^zGtrS. (hURrT.G@\_33333G@\_zGG@`^7  
=pG@`^b\ (Jd;G@`^b\ (trU. (hURrV.G@`^QG@`^  
=qG@`zHG@]p  
=JAG@]p  
=trW. (hURrX.G@]\ (G@`^  
G{G@]`=p  
G@]\ (J@G@]\ (trY. (hURrZ.G@]h)G@`^E\ (G@`\ (G@]\JP4G@]tr]. (hURr\ .G@]QG@`^33333G@]\ (G@`^p  
=J#G@`^p  
=tr]. (hURr^ .G@\_G@`ffffG@\_qGzG@`=QJqG@`=Qtr\_. (hURr` .G@`)GzG@`FQG@\_33333G@\_AGzJ.G@\_AG  
ztra. (hURrb.G@\_ (G@\_~QG@]G@`^nQJ#dG@`^nQtrc. (hURrd.G@`^ (G@\_8QG@`^G@\_`zHJG@\_`zHtre. (hURrf.G  
@`^QG@\_H)G@`^G@\_ (JG@\_ (trg. (hURrh.G@`\_  
=pG@\_G@`^3  
=pG@`^;QJ\$#G@`^;Qtri. (hURrj.G@`^=p  
G@`^QG@]33333G@`^JG@`^trk. (hU  
Rrl.G@`^~QG@`^p  
=G@]zHG@]\ (J  
G@]\ (trm. (hURrn.G@\_ffffG@\_QG@`^G@\_ffffJxLzG@\_fffftro. (hURrp.G@\_ (G@`\ (G@\_JG{G@\_RJsAG@\_R  
trq. (hU  
Rrr.G@\_ffffG@`0G@`^G@\_ (JG@\_ (trs. (hURrt.G@`< (G@`IG@\_G@\_  
=pJQvG@\_  
=ptru. (hURrv.G@`^33333G@`G{G@`^33333G@\_QJHG@\_Qtrw. (hURrx.G@`%\ (G@`G@`p  
=G@`=p  
JG@`=p  
try. (hURrz.G@`  
=pG@`GzG@`5p  
=G@`5p  
=J&G@`5p  
=tr{. (hURr|.G@`c  
=pG@`GzG@`%\ (G@`



=qJ?G@`  
=qtr}.(hURr~.G@`QG@a33333G@`zGG@ap)JIEG@ap)tr.(hURr.G@a~QG@a33333G@a\*(G@a\J=G@a\tr.(hURr.G@a  
=pG@b7zHG@azGG@b!RJT/G@b!Rtr.(hURr.G@bffffG@b)RG@azHG@aJ(  
G@atr.(hURr.G@aG@bG@a33333G@aQJnG@aQtr.(hURr.G@a  
=qG@b6QG@a  
=qG@aJG@atr.(hURr.G@bIG@bQG@aQG@b)JX2G@b)tr.(hURr.G@b)G@bffffG@b;33333G@bozHJlv9G  
@bozHtr.(hURr.G@baRG@c4(G@b`G@bQJ  
=G@bQtr.(hURr.G@czGG@cVQG@bG@c"(JG@c"tr.(hURr.G@c(G@czGG@ccQG@c|zGJ<wG@c|zGtr.(hURr.G@c1G@cffffG@c  
=p  
G@cG{J(G@cG{tr.(hURr.G@c)RG@c<zGG@bQG@bzGJG@bzGtr.(hURr.G@c  
Rr.G@b(G@cmp  
=G@b33333G@cQJG@cQtr.(hURr.G@c  
=pG@c)G@bLG@bdzGJhpG@bdzGtr.(hURr.G@bX  
=qG@bG@bGzG@bx)JDG@bx)tr.(hURr.G@bG@b  
=pG@b7  
=pG@b(JlfG@b(tr.(hURr.G@b  
=pG@cC33333G@b  
=pG@c6ffffJG@c6fffftr.(hURr.G@cEp  
=G@cG@c+33333G@cOzHJG@cOzHtr.(hURr.G@c  
=pG@dHQG@c(G@d!GzJ/G@d!Gztr.(hURr.G@dFQG@eG@d8QG@eQJK6G@eQtr.(hURr.G@dG@eG@cG{  
G@dffffJ4G@dfffftr.(hURr.G@dG@dG{G@d"(G@d|zGJ3G@d|zGtr.(hURr.G@dG{G@e?)(G@czGG@ezGJh  
HG@ezGtr.(hURr.G@eVffffG@ec33333G@dp  
=G@e7(JG@e7(tr.(hURr.G@e8G@eG@e\$(G@ezHJpG@ezHtr.(hURr.G@ecQG@eQG@eHG@eJ4AG@etr.(hURr.G@fzGG@fG@ep  
=G@effffJIG@efffftr.(hURr.G@eQG@fG@eQG@fJiG@ftr.(hURr.G@fzGG@fp  
=G@fQG@fzGJIE\$G@fzGtr.(hURr.G@fp  
=G@g)RG@fG@g(J\G@g(tr.(hURr.G@gQG@gc  
=pG@f(G@gUQJG@gUQtr.(hURr.G@gAG@gffffG@fGzG@fG{JxvG@fG{tr.(hURr.G@f  
=qG@gPG@f=p  
G@g!RjxG@g!Rtr.(hURr.G@fQG@gG@f  
=pG@fffffJnG@ffffftr.(hURr.G@g&QG@g  
=pG@f33333G@gQJG@gQtr.(hURr.G@gQG@gffffG@g{QG@gQJG@gQtr.(hURr.G@g(G@hzHG@g2=p  
G@gHQJG@gHQtr.(hURr.G@gYRG@gG@gffffG@g)(JPG@g(tr.(hURr.G@gQG@gG@g`G@gS  
=pJOG@gS  
=ptr.(hURr.G@g{QG@gzGG@fG@f33333JdnG@f33333tr.(hURr.G@f=p  
G@gEQG@f  
=pG@g<JG@g<tr.(hURr.G@g5p  
=G@g~ffffG@fG@fFzGJvG@fFzGtr.(hURr.G@fhQG@f(G@eG@f!JdG@f!tr.(hURr.G@f  
=qG@fzHG@f9G@fp  
=J;G@fp  
=tr.(hURr.G@fG@gM(G@fG{G@gM(JvG@gM(tr.(hURr.G@gmQG@g~ffffG@f  
=pG@g`QJoG@g`Qtr.(hURr.G@gXQG@gffffG@g0G@gVzGJH`G@gVzGtr.(hURr.G@gnffffG@gGzG@gl(G  
@gJ,LG@gtr.(hURr.G@g33333G@gG@g)G@gC33333J{rG@gC33333tr.(hURr.G@g[QG@gffffG@fG{G@g+  
=pJLG@g+  
=ptr.(hURr.G@g

=qG@gbG{G@f(G@g&zGJ,G@g&zGtr.(hURr.G@gJG{G@gG{G@g6ffffG@g)(JhG@g)(tr.(hURr.G@gG@gfff  
ffG@g1G@g4zGJ,~  
G@g4zGtr.(hU Rr.G@gGzG@gzGG@eG@fQJG@fQtr.(hU  
Rr.G@fQG@gX)G@f  
=qG@g4zGJxmG@g4zGtr.(hURr.G@g  
G{G@g@G@frG{G@fRjG@fRtr.(hURr.G@fzHG@f33333G@efffffG@eQJ8G@eQtr.(hU  
Rr.G@etzGG@eQG@dRG@e  
=pJ}G@e  
=ptr.(hURr.G@eiG@f<G@e"=p  
G@fG{J%=G@fG{tr.(hURr.G@fC33333G@fzHG@f-QG@f(J(FG@f)(tr.(hURr.G@f  
=pG@fffffG@f+33333G@fXJ7G@fXtr.(hURr.G@fQG@fG{G@fG@fJG@ftr.e((hURr.G@fk33333G@fG@eG  
@e  
=qJ(G@e  
=qtr.(hURr.G@ezHG@e(G@eqRG@eQJ0\_G@eQtr.(hURr/G@e  
=pG@e)G@et(G@eJORG@etr/(hURr/G@eQG@fZ(G@e(G@f,zGJ2\_G@f,zGtr/(hURr/G@e=p  
G@eG{G@eQG@eQJ\G@eQtr/(hURr/G@dQG@eR=p  
G@dG@eBG{J 7G@eBG{tr/(hURr/G@eFzGG@eG@d  
=pG@dzGJtG@dzGtr/(hURr  
/G@d(G@e  
=pG@dG@e(J)G@e(tr/(hURr/G@efffffG@f.fffffG@e(G@e(JhiG@e)(tr  
/(hURr/G@e2G{G@ep  
=G@dG@eC  
=pJ5G@eC  
=ptr/(hURr/G@eQG@f\$(G@e)G@eQJG@eQtr/(hURr/G@eG@fvffffG@ezHG@fqJG@fqtr/(hU  
Rr/G@fffffG@fQG@ezGG@eJ(G@etr/(hU  
Rr/G@ep  
=G@f\*G{G@ek  
=pG@f(\#G@f(tr/(hURr/G@e  
=pG@f#QG@e`G@e(JG@e(tr/(hURr/G@fgzHG@fiG@e(G@e(JG@e(tr/(hURr/G@e(G@ezHG@dzGG@e4z  
GJP6G@e4zGtr/(hURr/G@efffffG@e(G@e33333G@eRjP@eRtr/(hURr  
/G@e33333G@e(G@elzGG@eyRjG@eyRtr!/(hURr"/G@e  
=qG@e4G@dG@dJ?G@dtr#/(hURr\$/G@dG@dG@d#  
=pG@dGzJeG@dGztr%/(hURr&/G@bG@dXQG@bP)G@d@  
=qJKG@d@  
=qtr'/(hURr(/G@dzHG@e  
=pG@d1RG@dQJ,BG@dQtr)/(hURr\*/G@d=p  
G@dQG@cfffffG@c)J`G@c)tr+/(hURr,/G@dG@d`G@cG@dC  
=pJNYG@dC  
=ptr-/(hURr./G@dJG{G@dO  
=pG@c@  
=qG@cLJhtG@cLtr/(hURr0/G@cmQG@cfffffG@c4G@c(JtG@c)(tr1/(hURr2/G@c)G@dzHG@c(G@c(J1G@  
c(tr3/(hURr4/G@cGzG@dFfffffG@c(G@cfffffJh[G@cffffftr5/(hURr6/G@cG@czHG@cxG@cQJ(G@cQtr7/(hU  
Rr8/G@c33333G@cG@cQG@c(JBG@c)(tr9/(hURr:/G@cmp  
=G@dG@cZ=p  
G@dzGJ!wG@dzGtr/(hURr</G@c  
=pG@dG@cG@dzGJHG@dzGtr=/(hURr>/G@dVQG@dG@d0G@dr=p  
JinG@dr=p  
tr?/(hURr@/G@d{QG@e4G@dxG@e1JG@e1trA/(hURrB/G@eB=p

G@fG@e5p  
=G@eRJ,G@eRtrC/(hURrD/G@e  
=qG@fiGzG@eQG@f(J\G@f(trE/(hU  
RrF/G@f?(G@fG@eG@fiJ  
G@ftrG/(hURrH/G@fJ)(G@fffffG@f:G{G@fj=p  
J0xG@fj=p  
trI/(hURrJ/G@faGzG@fxG@eG@ezHJIG@ezHtrK/(hURrL/G@e=p  
G@f9RG@e=p  
G@ezGJv,G@ezGtrM/(hURrN/G@eGzG@f"=p  
G@eyRG@e\))JOG@e)trO/(hURrP/G@e  
=qG@fzGG@eQG@eG{J8DG@eG{trQ/(hURrR/G@e  
=pG@effffG@e|zGG@eGzJ8#&G@eGztrS/(hURrT/G@e=p  
G@f0G@e=p  
G@fGzJG@fGztrU/(hURrV/G@fG@f(G@euQG@eJG@etrW/(hURrX/G@eQG@e(G@eQG@ezGJ4G@ezGtrY  
/(hURrZ/G@eRG@eQG@ezGG@ep  
=JG@ep  
=tr/(hURr\G@e)G@fG@eG@ezHJG@ezHtr]/(hURr^/G@eQG@eG@e!GzG@e0)J@FG@e0)tr\_(hU  
Rr~/G@eG@eG@dG@dzGJp{G@dzGtra/(hU Rrb/G@dG{G@e(G@dG@dQJtG@dQtrc/(hU  
Rrd/G@dQG@dQG@dRG@d'  
=pJG@d'  
=ptre/(hU Rrf/G@cG{G@dLG@cG@d(JXG@d)(trg/(hU Rrh/G@d=p  
G@dzGG@bQG@cp  
=Jp:G@cp  
=tri/(hU Rrj/G@cQG@cQG@bGzG@b(J#G@b)(trk/(hU  
Rrl/G@c  
=p  
G@c\_zHG@bG@bQJRG@bQtrm/(hU Rrn/G@b(G@czHG@b@G@cJ0G@ctro/(hU  
Rrp/G@bQG@bQG@bPG@bzGJ\*G@bzGtrq/(hU Rrr/G@a)G@bvzGG@aQG@aQJxJG@aQtrs/(hU  
Rrt/G@`QG@aG@`G@a(\J@&G@a(\tru/(hU Rrv/G@aOzHG@aPQG@\_QG@\_QJG@\_Qtrw/(hU Rrx/G@`R=p  
G@`(\G@^+QG@`G{J\$G@`G{try/(hU Rrz/G@a33333G@bfffffG@a RG@aQJG@aQtr}/(hU  
Rrl/G@a~zGG@aG@`UQG@`aJG@`atr)/(hU Rr~/G@`{33333G@`G@\_p  
G@\_(JDG@\_(tr/(hU Rr/G@\_GzG@`^fffffG@\_IG@`QJ:G@`Qtr/(hU Rr/G@`9G@`GzG@`  
=qG@`}\(JD#G@`}\(tr/(hU Rr/G@\_:=p  
G@`9G@^G@`zHJ<eG@`zHtr/(hU Rr/G@]zHG@]QG@Y%\G@ZP  
=qJXG@ZP  
=qtr/(hU Rr/G@[G@\G@Z33333G@]j=p  
JxvG@]j=p  
tr/(hU  
Rr/G@[G{G@\  
=pG@Z)G@[GzHJG@[GzHtr/(hU  
Rr/G@[  
=qG@[2(G@YG@YfffffJmG@Yffffftr/(hU  
Rr/G@ZG@ZG@WG@XDzGJYG@XDzGtr/(hU  
Rr/G@Vp  
=G@XRG@U\G@X)Js|G@X)tr/(hU  
Rr/G@YQG@Y`G@V<G@VJ=p  
JxG@VJ=p  
tr/(hU

Rr/G@Uz=p  
G@XQG@UkQG@Vr\(\JG@Vr\(\tr/(hU  
Rr/G@WVffffG@W33333G@UffffG@V\(\JtgqG@V\(\tr/(hU

Rr/G@UIG@YG@U@G@X33333JIG@X33333tr/(hU

Rr/G@Z#33333G@[RG@YAGzG@[  
=qJFG@[  
=qtr/(hU  
Rr/G@[  
=qG@]G@Y\G@ZQJh7G@ZQtr/etb.  
!\$\$)"'+..17=;2-& \$\$  
!1<@DIRXYWW]d\_O8,,)(#-'&.,0?=6.-0354-)2EP?:TXPE<2#6

2!\$"   
2)\*>>HTUF81%(\$%, 4\$" !\$!"!'"'  
%;H?\$8JA" &"#=5' #.68731/+01)#%\$\$ 3\*.)  
\*8XM:("!&/.6"-9>:1)%#!+60")& ET<\$+  
"\$\*)\$

(--#?4 #Q  
/.\*;!

'\$"\$

#!(0%.7 Cj)J6+

(.)"

%" "##" " ,=A,I]U1&.+ '!' "\$\*/.)%#! #)//+)"3=: &EWK/!!%-  
.%"&##&\$\$)\*\*(&'\*\*'&)/1/-.,+-130,(&%&'%  
!.5WU3)!!  
#(("#! % +/./3662//0244349=><9:>A@<86421121-)&&&"74"^d>\$!%( /2\*#! \$&)-  
258:=>=<AFGDBGORNGAAJUZWOhDA@ @BB;1\*)-0/(##\$nxS%#  
\$/\* \$(+048=ACCCGLOQTVTPRZa`YROQVZ]ZTOKHGPRLB;9840.,&(8+, H\J-  
%#&.,05<BEFGHLS\cfgecdilf\X]dfb\_^ \WPKMU\_fdZRNKC7//0.)%##725%4UM.(  
)\$ )4::;>CHKMQW\_inooruslmi^V\kxzupph\RP[kwvngd\_SD:655431.\$=G70\_X3"+-

!\$%%\$!\$/?ABFLT\emswxvsruvrlhf XXfyuvwsk\_Y^n}ytncXOID?:730-\$2C('e]0!  
%#!!#\$%) /58;?FOYcltz~}yvtqljh\_TTe{||} {tkegr~xnfb^UH?:8642,!  
6\*+!oe9#!), '&\*.//28>@ @AGQ\_mw }zyxurqmdXT\_tzqjkt}tnlj`TKJJG@92(340-vm@""  
'-,'\$&.6:>?BDDHR`o{|zzyvutpe[\hxxnmvzsqtwsgYNHCBA>80'6(!\$hmM!  
%\*,\*%!"!%/8>?BIPROPZl|~{yvwvz{thadrrxxpknx}n[MGFHIE=5/\* 6HT9 (.10+&  
!)5AILLOV[ZVWct]{zzxx{-|tiekyuotwkejv}yk`^bebZND=;92# 2CC\$- ")--

,,,):FNQTX\_db\Zbp~|{zz{xpouzru|rov~vsuxwqh^TKD=5+2+SM,#  
!..(! #).27?HPUWY`inkghr~|uuy}~~{uu~{rs}pnr~|} }zupibYMA83+  
#8HL)+\$&  
%hQ . \$!"/-\$&1;AFMQQQV`kty{ {yvuy}ohm|~uno}us~uxzrjaWRNF5%/Tb,+"  
..(%&{"-6=@FOWZY[akt|~qhl{|vt{pm{xz}vne\UK=/<br>+B<br>\*HI3'  
%# "#\*7DMRW\|)\dnw~wj|z}zy~~jgw|{~xrh\PGA;4, 29\$RT2.&%!#\*-<br>/8EPW`a^^eox~|}~on{zuo|{kj|zz}wnbVOPQJ<- "9:HrN(#<br>!&.5:?HS\aeFc`er}|z{ts~}rp{ }th|Y|cbVB1("D"!\$V1#"<br>% ""&),1:DLT]flmg^|hz~{uu~~}yqicbflni|MA6\*3E&!<br>8P+#\$. /,""/4:CMTYblqj\SXk~}~x{xz}|wlfmrtutmcXNA1 7? )SI#(!<br>-3-%"!\$:-ELRY\_eotn`Ybuwx~|~xxwphdju|~} }{vl`SD3%&<:9\5"11(:1<br>.,02+&\*29?IRX[ahnu~vd]g{vlp~~wj}\gx}vjZJ;(!+D9 &bW!)&@S=4?BJ9-<br>+)2AKOU^dgl|{i`j~whj} }wibgt~xpdVH<2&"CRW`0#/GRT1(C/"8Y\B\*\$)/:HT^hquist|pek~mfq}tkjoxwrldZOB6(<br>1G\$Bp)+,HTO?(>95CSM5##.;GVdnu|}~xj|}ypstnot|}umd\VRJ>1!!:5'erB'\*0JYXL.\$(3EJ;')5>I[luwx}njwxttxudRF<br>CED=1"/?>hU#(1P\T?%(.#\*;FHHRcryz|tkr|xwz{iUGELSRG8\*!;5 %ftE!#+BMG2<br>\$->R]\_ZVYdq{xigv|xz~uh[UZchdWH<0 -E5\_O",<KI:

(/16CUenqmcVQYjz|h|f~~vtyzwuqmmmlh`VK?036E^D\$%7II9<br>\$279@QbnsvuodYWbuo\_\k}~tnqyywxywrkaWMB3#&68ia%'36D<( <br>)9AHQ|fkotxwobWT[jxuf|]iv|sms||{|zmb[WO>(/7Yk<(4(:K?"<br>'7ER]cedgp|rbVQT\fr{p|lv}xsz||~pd\_]TB,<br>'=Ot[\*&%2PQ8<br>&,5AO\ddabm|ujehotv|xv|~~|~vsz}qfdbYI5%!318he0%%DOA!#\$+7HZgid`gv~upry~yyyprzzqnu{|ujfe\M;+<br>6+\_k>(!EUN1" ",8ETaiefo} }usx{ } }w{~yz}ylfc|QD6"3\$QoS!))8RS<&!<br>&/:FSaijfhrrzsw}vxumie^TF2/1<mi7!&4PVC(+&+0:GT\_jnlin}ut~zw|}|~|ts~zqljg\_O8 )6)boF%!BJ=<br>"+\$%,3>M[flkhq{rw}wwtmjwvpmfYE+\$8,!ZrP+.2FC,)%<br>(4@M[hqqkgisws~v|z{ } }w|zsqng\L3<br>63Oq\)+DM?!9IZhqtqnpvvu{u}|~}xsj\_N647Bkb/)BJ?&!#,5<GVgrtqos{xz~wlek|snv~xk^N8 .5!2gm?\*&7GD4<br>!#"(6EUdquqr{z~wjit|lbfx}sfXH6#&2\*\$ThF+~/FH:%!\$.=N^ltvvw}z|z~rcZ\_r~}xsj|I6#/(#YtV+6#?H=)<br>\$\*:JYforsx|yz}xld`gt|vw}{rqvzysrvvpke|O@/#4.5c/7\*/?4\$%'<br>'3CR\_iosu|xs{|sqv} }gRM^~smqz}wsttrnkeZL?2%#13"#KU703&=D@5(+<br>\*7GWcinszpxvzz}||hbozt~{wtutjXC3'!#/0-eqK#02@ @9) \*40\*"+2:DP^fijpz|spx{ oq~yt~yzzvxxviS=">L/zT-<br>&351\*4;92\*%'0<HT\_b\_\_iy~zyyzztnvzkr~{nY@+!)DWAJiN(1;4%/AC=73149@GOUTMLXmyqwqp~w`C-<br>(4KU@%>`P%#0::2!<D@823;CGKR\dfb)`kz{w}~nls|~iH/+8EE4\$4UX7\*.+11'<br>\$6<:657<BJVery{yurtx~ymnx~~IM0)6B>(:V)>\$2'5:1\*6;:89<?FTft|zzz}||}|}oT<4;DA+.ZfJ0<br>-87&,4667;AIUgw~|~wv~}uv|{jS@88:/LcP1!#48, '06=FNU`myzy~}zphhq|tty{ vkXB428B>!;]R#7'-;('<br>039BLT\fq{ly~{ {yprz}z{zx{ {xo\_I607DF2&LN+0\* <br>\*41#),-09GT[akvzx} }ztx{xz|zp|G3\*-9?2#GQ3',%-1) &+\*(+6DQZco{ {stxymlv}y|~zmX?\* %3<4J|A'5 ,-<br>#-23215@N[fq|ypq}w|~rgh|{sqv~|~{kT?&}&3;8KgP .-<br>%-49955>M\_lwzrs}w~wt} }pio~} }~{zyyy}~oS9,,05:9#9\_O2\$ +/&(.6;:8:CP^mz}xv|vwxwzkg|~y|<\$+29<.,\_^<br>6&#!12%\$+48417ER\_my~{xrw{wzzift~{dG.!%0>D6.\^2",#<br>\$1;>959CP[hprqt|}t|~}uhhs~veP:'!\*;C5 2ZY);/%.1%\$5AB<78@M[hkjoyws~xx} }{oinyxhT='&7@3!5\_e;\*-<br>!29/#7CC=979CS\ZYdwrqyonv{wrwulmw|uhWB.\$)45\$>ba,-

\$4:0\$8BDDECBJXa^]hyqq{nlrrf]g~~vrrw|zy}wofXC(/,;`)0+%  
(;A: \* 4>@AEHQJ^illr~~zminnaWb|){yupqx~~|~wy|{~~zrgWB0(\*~+Fph,,')%8?>=  
2;;>DJR`ovuv~~xy~~qcex}uolnt|}z|trw~}wssuvri]N=0\*\*+)\$(~g3))\$;HI:-  
59;<AHTdu~|y{ygamvlfgo{wy|yv{~|uomnpoh^N</+,0\*,j^6+&  
9KP@'+/49?IVet~yuyoejzuootz~~|yy|~~~{||~}zvnfceihaUE3'%\*5.7wN7(!, :OTB",...-  
,2ATds~tr{xjqg~}uqv}{||{||~~~vld`bfhe^TE3\$  
(6'Lx(7:"+&=U[I%0761.5DVdq}zkd|}yeY\_p~~~}xw{|wy|{||~}wjbfgd^WOC3& (8\$Mo;6'(@^fR-  
185.,4CScq|vf[|]v{|}uaPP`t~}xttvz~~xvz~{~|kcflog^P>+ ):XtNA3\$-@bl^>  
-  
993.2?Paoz~yk]X\adhov{|zsfXQS[cglisy{ }y|}} }z{nfjquutm]D\*/:6(F1E2)EgrhI)58522=N`mw{xk^Y^eilpuy}~{wo  
hb]XV[ftz{{y{~}}~zwwztigihfe`S=&1+Qz13>,)AgwnL  
-8;953:I|vytkdeltwurqsvxz|~{upqsn|coy~|v{ }|}||~{utw{yfYW]dg]I0#2%ig>9 &?j~wX,  
1:<.:?IUcovuolpw|ywwvusqpry{uq|td^fs{~ursvy||ros{ xaST^geV>&G}O!C6!Es{Z/3=<9:@JRYbjmks }|{xsqoiba  
glnnihmvypc\_{vstyppw~{y~xi]WWYXR1!\*b}i+0B1  
Iyh=1=;54;GQX]`abfq }{vqojaYYafea^YSSYab^iu }{vux}~wjis~zqqz~uh\_ZWSSVUG1!Pb6>)DsrF/;:4019DO  
WZZ\bnz}ywtrofWKLWUROH>;DS]birz|vx}zy~zyz{ { }|}sg\_alw~~nacntod\_^cff[D,\$  
^|E?=%MxzO  
,42//17CNSSTX^fnvzysmf`XL@<AFDACHHB@JZgpuww{~|ywvvy}ww}|yz}~ztniffggeccfjiffknl^YWY]^XH3"  
!-##f!1@4!S|yR  
,, "#\*3>GIILRVX\htyv^M</+2<@;7:AEFKYhptvw{|||yw{zvy{vwxwic`adghhikopoljkkf\_ZWVXXUL=,&'B{a  
CD,]Z\*03%" +49<?EKMOXepusjYD4.0563125767BSafiw|~}{yutw} }z{ {vpjecejopmjkkou|xrib\_]YSQV]^WG3#  
\$0")[xH&I=0d{W1#  
\$).149>@?ESdkjgcXF84760\*+04425BTaeiqz~ }{~wtx~tpmlov}~{wtqnlmorvz|{yz}~{yz}~yoe\_\XUW^`XH5"/39  
xw;2O<6h[3  
\*4\$(.49944AVa\_XSLB86::732231.1>Selkntwvvy}yy|~wtu{xnjiiiov{|zyzywuuvxyz }~{|yy|~{vtrlcZRPUSZSD5'  
65?'BN3:IZ/\$&#\*%<QXRIC@BGJHC=82,'\$&3J\_ikntwrrsyuooow~wqqv|}vojhhimqssrrrsroquxyy }{~|yxxyyz{ {z  
z~}sg]TOMJ>."!?:DSGC\$Am|X1  
+<EHIHIKLLJE;-#1%.<M]gkorsrpons }vqqv|yurrsqrslfhehkljhghknpqppty }~}{z}xmeba\O;(0SGAM%G=!WsR2  
!!'4DMMHFHIG@60/249EwejkjhgginxvqsZ{xtplhffhihfdffdbacdfjnrvy{~}}~vohefikkfXC1("FeN#I)t87M8|x<  
# .CNLLHHC><<91-5I]gheb`dlxxnnyzvjc^]^^^ chhd][^cgikox{~}~}xurqqsqpnal1\$4Vb5\*o1<M5PvziP0  
\$-/ " ""+=MTUX^a]UKE?7-(/@R]]XTW`jr{ {rs{ }|}xncZVUTRQSYbiia[]fosvy| }{~}yx{~wrrv{xeF\*,Khf&%fb<B'-  
|zhJ  
\$(&!\$/:DMSTTW\ac\_XOE:2/3<HOMEBK^mt|)}||~{ukaYSOIA>ER`jkghox{zz|}{y|ysv}v^A&#>}sj%)tc%H?&Tqt  
eK%!+;@>>CKQW]ab\_XNB5,).8AEEK\oxy~{tnf]QIC>;>HVgv~}yvvyw|~{z~}yzzvphW>& 2Oel-  
~f(J:,L^aU9!%3723<EKOT[dfc]O>.&.;IPU\_nz }~||~zqfXH8.\*),3=:;BWo|vu| }xrruvrfP5""A[eeR6C9L2CafYF\* "  
%(&"07/ " \*1/3:~BELYgopk`P=13@OW]gt }{ }|yvsmcUC1!-Nly }{yttw{yo[B,\$3N\_dbG"Q1<;<\_`OA2\*% '-  
%/,!\$+49:>ELS^ipogXF98@KT]fs{~}{~}sg]QC2#,F`s }{yz{yq`J3'-D[de\_;3np4(5[^LB?1"00)!(263\*#(7?5\$  
'\$%07:>BDJXgooh]N?538@M|m{~}{~}vbUPK?,  
/D[p~{wvxyvjU;%-GYacO,QL&?,2]=! )\*+%,/\*.\*8?>7+'1CJ=-"-:AB=9>Oakmlg[G7/.2;Kawzyyx}hPDB@7'  
.F`u~xttwxq\_F/!%5EOY[=1i|(3?+'SX9"&  
.7=BDC@;1\*1DQOB3%&1:@B;0.8L]ehh^J6--,->Ztzz}v{~aF82,  
(@]s{ }|}wwxugP9+)>7>IWQ.IM  
@0=I1#!  
#)6DJFBA;/+<XeY@+%).25782&"-D[ddfbP8+++\$.Kfvyx{zu{~dG70) #>}pvv{|vssvvo]D2+/69>JRAAsx(8<"  
.\*&(7A<14ETTLFA94<SgeM5+046434/"&;VeffeZE5.\*##8Rgqvzzv{ }oD&")&  
&>Zmv } }|upmkhcYI7+\*2741/1@kL  
80,,&)(J\VRPKFC?92+,\*TRC52683,--!)F^dcc\_TH>4&8Wkqv~wwz|~{r[-

'>[r~{ }]|~wplie\_WNE<0&\$.94& !+Op&  
4G4&6/  
9QbkgXJEC=4+ ,GL@48DC4++"7Ubba`YOIB/  
1Phqrv|uoow{reK"  
2Jbrtkbfv}{xtponkf [WQF5\$.90!%:W{N99!/>@2  
0@Qdro`PC3#

'?D=>IJ8%""&G\\_^^XMGG:

-Vrvomqwwqjmx{nbM)

#9Paif^Zbqz{y}|zuoiecdipsoga\_^\UE2!"+)!?"{h-  
\*D;2FME1" :J[c\NB2  
1HH@EMB((F)[^ZJ?CC(  
%6a|nglpiafx|{wqiW; +<@-3QhuyzzvmmffjmkijlnnmmpvzyvwxrmjhcYI5#" -1'2Vxl?5>(>ZleI\*"\$/=KOKC8\$  
&COC<CA,"7KPS\]O=;@8.\*  
-Zy~vssj[T[ekouwrhY?

46\$

-Fbt{ }yv{x~|}{xvsqolicVA+"#\*5Jhb( "8.>jaLFDA:1\*\*163+(!! 4TK77?7(!)?GLYc]L@?>/  
1&! ?QXZUJ;02>P`bT? -  
10 \*Jgtuty|zz{zz{{zxskc[K6'(36\$\$H\_syL8@1!Eo~obWF.  
6<!&SO73CG8)! =IMV^\RJFDA3<\*(5(

#\$&/:CKSL6! 3=4&: `uwru~}~ziWI=307CE,  
Nkk0(B;\$'^u~wuq\3  
-BKD\$HR@9EMC1"2ELORRPPNF=7%S=!&\$'\$&(  
2Jbvt\_E,  
"\$%((#

&Ljspqzvnlpvx{xm\KB?ACA=9\$&Z}T/6+%>Ucegnrc; ?IK64WO@ @II=- -AIMSXYZYPA88.EeD  
"? \wynpqroQ'(\$

Efrlmgmx~}torvyzuj[NHILPNB2+ 5exD0\*0FOOT`jhS9-  
"CY'E)ZV?:HOB-\*;ELSZ[ZTH@DK2N5 %9SqyMNjV+ !  
)Iagb^clsz{y{ }~|}qaSLKGA<7+%9Xv~f/(2\*04?L[mxnL&(4  
.b~O'Y\H<FPC\*"2?ELUZ]^[NBDNE(:ZtnO'  
=QJ3  
"

#<Q^\\_ciotwvqnqvyxvw}|umcXOMI>/&##\*A^zwdC80'9EMQVj~@-72nU #M\_XD@IG3(7?FNUWZ[TIGQP,\$  
6jL!

&.AH5&! 6JVZ\\_bgmqpjeegjmquxz|yqh`WMGFC9-\$!7RetqQ \$7(\$#%-7HVF  
/ 3ke;(=^cL=FOB)(4<DIJKQWVSX\G5F3&("0Wtg;!<JA3&  
\$(!

,ERSSWZ[^fnmc\\\_cfjnstpi`WNIJMI<+4NYVVexy`027&&. ;C4/7..qV64BPYOAKYM1!"19BLNLQ[\_[Y\V;\*"CL

A.#%+,% 3dh4(&#97\*//  
%!  
#4S\_YQPRV^hk]IBHRZagjgb^[UNIINTVO<"2IVV SXith;  
.,.&4CMG+  
,)/8&KX<H[PPWJ/!#5=BFFCHV``\^]RA9AP[WG8238LunA!(=6%\$\*";MSQNNU]ZE):(GNTZZUQQRPMOV]]  
WI-3OXY^kx}qM&>#0:."/0 <f;p:ChZPVQ6&'  
#278=CFKTYYY\]VH?EZr{pgcfrnO++?8\$/70  
5GMHDEC2;/97<CGHHKNOPTY\]XFlenrw{znQB>,!-(\*47\*?xK  
d?8eYHPT=\$(+&-016=BGOUVW\ ZJ=@Qdoqpnkgiqy~rU/ #/<5  
#(.0,"  
!041/\*#00++19AHNRW\`b`a^@5eqX-CE1-9422)1WPW~?5c[ELVA--'\$(-  
28>?AJVZVUYVD0+8LZbfhghjmmrV1"%(.,"")+3430'  
#73(#/:J[c\_YZ^\_]ZSB\*>n~oZ30D9\$%<EGA/C\_xtDDzX:UXGLXH'51  
#9EFABLWYXZ[N7'(7JZbegf SIOajX5""',18>7"  
&1=?;5-#  
'&#;>LWdpm\OQYZTNB"+\_~hO+)G>+(>JOL@2.8JX\N"  
3|>?QHM[S. 82+8BGC<<JX[SNONB2\*2F[fiidZV^jgN/!\*(&27BST5  
!((".2&))&3;DUde\_^b\_QGLY[P?)\$X~sO'  
'K@'8U`\_WI7+.9?=/  
#r[9;9@SV:7(!@LLIGEGPWTG@CG=+EZcffffghdT<!\$448KX@&2.++!#4\*'DE1N[\_bgibRA>KXVKJSUC!&  
XtT)"LH1A]f TC- "/zK"8P\J34LI?@KTUUUPE<=@9&%9LZbefggbYL;,\$#>;2>TQ-  
/4\*\$)),10\*"3HTSNR[\_YJ:05HWXOLPJ&Kz}].#KK:#Eci\_P<""&\*j]=.EVT,  
JUH=BPYWQNNKEBC@4%""3CQVY\_fhbVF5(%"  
(92%+@L=%!(!(' \$/,  
!';FD=>KZ\N6#/IXYVWU=1pe6  
#IK=% RtyjT;%"),67  
Ik;-7IT>  
2RQFFOWZYT MJHECGKB\*,6;FWef\_TF6&%12\*(.67/.)&'\*)" )=MH(  
(0:A@@K\hdO23MYXZK!goK(LK?(?roV8\$\*>uiE8AK> @QH@HRSQSVWWULDIWV># !!ΓbUG?8." .1-  
+0:A=0%&.0(%2IWP4\*16:=CQ`fG.!)D[ ZWU2K\iKKMA,(V\tbO4"=jsMA?2+EJEIXa]VOLNYb\QQ\|I3+\*" -  
HVO@6/&\$04,&0431251&&022:DHA1#+++7CMX`aWD3~:R\_\SQMt~ofM+DG>~.rU2 \$  
8a|oO>0->FEHR^bbb`YQRWXVW[WI;774./45451&-  
760.,)#")4;:5/&+8;:=>;3%3/\$4HTVVUPGBGT]WKGm9K`F78DH9)/jmE& 6?3  
'Lf`?.2>DCAGS]\_\_caZQMMQVYXSLHEA;2(#%)#09AJPM=\*#/59;7(-  
778>DA5%()8V\_TJJNOQYb^K>CKw}H# \*BM;%8ysH57DJA04O`m{~d8(5CHGHP[ehfb\_^^ZQF<8;DMNF:1.-  
+%'\*)!(?)z{\@(::=0(--  
1>LNB3\*('\$"Ha`NBFQUUYZN>;H??k)#0KA&8y\LS\ZL>1&"\$"+4:EW`O#4IRRNPV\_fgd\_\^]RA2)\* /33.)'+-  
)!\$"2BSgi?!'9@6&% .118FSSG;76\*7PZWLDFLQVYRC;FQ\*%vT7A:)8u|b`ecYI6&!)&  
)EUVQPWaghd\_\]^UI<1,1;DB8-,13\*!  
KyK(-?E</+2852:JWWMD>4 :EKOMIILT\L;?YY7f3B@2!0ocVW\]XL=0)%  
%BTYVV\dgea`b`VQJA86;CF?2+.1,"!!  
@t`.1=B;218:43>MUTOI<\*#0BKIFHQ\bX?2EeN'fH;MA+={p`aik`O@4\*\$#"#  
%6FRVTTX^a^\_aa]VSSTPE:6;B@3&!#&%#! AfsS:4<@925==7:HRRQRM7  
/&\*IRLJPYaaQ96Sk<1]"MF/Imkqm[E8762./111,'05;DMRSSV\ab`\_`b`XXZVJ;3696-##  
'<Tqdf9<<407A@;?IMKKPL7&-="BITNPY`b[H7Bee&C?  
;G6#Zxga]Q<,-43\*/74\*"+4:>DLRSRSY`ca][^^ZVTUTK>40-  
&%\*CikH54512:AA@DJKJIHA66>;7EEOWafbVC9If!jd!D>&(dybYYQ?5<FA3,-'  
,8?CIORRSW[^]]^[YVRMIJMI=!!



9fqO8258<@AAACEHKKF?<CMD3=UMBXaefc]O?<Pa/&A  
.5)Shob^WMMUW17,#-;BCEHKMPSVXXY[^\_[WUQJCFNNC3(\$ \$

4\_vT8.2;@@@EIGEHEKE<@T[4-WiV,6aurga\PCG^b(0i40f{keb\_\_^R<'

4FONJIKLNSXZYXZ\ZWTPG?>BD?6-&  
#NutR3'-:ADHOQLFHJD=G\_#2]`M="W|yg^RELaU\$CJ  
15,%f{yxwxvdB  
.FZa\QJHHIJNTWVTTTUURK@99=A?:3+ "  
#GhuiM4+3@IJKNMGBDFA@Qg\5YQELF:v}h[WNEObD\$]{/1+"amC  
%5IY`\_ZUQNKJKNPPPQQQRTRG7.2=FGC=7/

4P\UF97>GJJLRRJBAA>CXIV=V=+>U1"TiYPHGvb4!nb.+ "XoB"2?IPTVUTUVVSPMLLMNPPPRWXL8)(2=  
DB;64)\$\* ,LWL?9>FKIGLSSKDBBBI]hA\$XIL/8VZ@SSLEHZ^  
xT+&Oj?"39;;<@IU]^\ZXTOKJJHIKMRWYRC614>FD;343"  
(

)GOE;;CJJGIPSMC=>@CPa]/3`gJ39NR;,>EHQaZ\$(xz<  
"/%Gi@\*7HJC<:=CMV\[\XRJHIIFCDILORTOF=77>ED:0.0\*  
\$!#?I@9=DC=<GUWMC?>>DVcm\*MriK9>F9\$4FV\_J4ui\*&'3wk>\*6JPG<623>LV[\WPLKIC?@CEFJOPKB:6  
9@CA<984-(% %DLA9;@>9=N][LCBBBj^d=+\vgPLUU=  
"@Y^?=wg)  
\$\$amC+,@NKB:2/9IQSTVVTRQNIEDFFCCGLNKE@>ADFGGC<3,\*\*#

(DOG>>@;5:M[WI@?=>Lbc32]iWKTecC  
&3W^:BqY\$"N{M&.LWQB2+4ENPPQSVXWSOKIIHHGEFILOLF@?CHIC;41/\*#

"=NKB>;51;NXRF@=9?Tj\_(8^bN@H\_hP\$\*2P]6LpN\$0tZ\*>SRD4,1?JRSQQTVTQPOLIJNOIA?CGD=9;CJJC<7  
65.##)%

,AC:3.+/?RWND?:9F]dH\$?LG<8H\S09;IT+ToG&\p:6R^]SE52ASXTMKNPPOPPPQTTPJFEEB<>BEFB=986/  
&!#&3EE9/\*(.=LPJC>;BWi^9)EE0.EO<% '8/  
HN&Td7  
%A}|D"&B]muqZ7&8O\^XPLKKLOSvVRPPPNHCCGIGDDGG@8554.(+,&\$\$%9E@2)(.7AGGECCHXkkL\*  
6B&%ITE4(\$KL\$cg0&\$!ZyN8=N\iztM02@KU[\WOJJOSTSRTTSQLFBDGIHLLD7/154.\*,-  
(%"5=7+\$'08>@BELSZbbL%  
/@&  
4\cO2%CD%ja&  
/%?rzbYZ[X^tqI03@JU\_aXMKOOJGMVYVSQMF@?AEIMNH=41341.0561)%&)1<B>1'(369@KV\[\UC%#.5\*  
Lf^B "DE  
"bX%\*#)Ywpj`Y\_p~}mP.!1CPX[WQQRJEHLJMSLACDGHGGC<535522694,')\*0<D</),126>HMLJC42  
@ +\*+PU?(FC"(\N  
)"AtnSCPjr^D3\*!(ASVUUVWTLB@DHFEKRQH?>DHHEEIKF=89963560()/0#. ?A6,+ .04=DD=:6(/9&?P>\*?46  
\_O\$##Q]mB &KcS/(1,3EHDEKSVQIEGIJJKIDAADGGFGJMLIGE>3/494+,68,"(57,#&---3:91-04/ ,2-#  
.L<2>.8]M\$1`pG\$?9  
<@7<B>=CMUXTMGEEFFDA==?ABBCGJLLNQSK>57=;2-00' &36-(060'(/% &14-(-

\*% '1=44;)EdQ&?lqS1\*A=%4|H925?KUYVOJIIHEC@=;;=?CHKLJLPNF>:94,(').(\$\*0.(-:<.\$)46..3.(  
'<245:\$OiS%FrzcC+4P[PT^8&+=P\]UKHJKHEDDBAAA@@BHLMJGGJJGB>80%'\$"\$,-)0<;+ &58..87  
,B2(58!PdK  
-X|jL47RhierpF(\$5KY[RGCFIJLNMJGGGC==BIKHC@AABDB;1)&%\$"   
"\$#('\$/=-:\*&68)%2;\*!2GG!!<=#SIW,<dmP63On}}]9\$,@NUSJCCFHIKLIKKGEGEHC=977<BB;2\*\$!"#!#5A=/\$)  
68\*"+91%.8KO-!F?"MeV.Dk]=1FiuT0\*:FKNKDFEFGIMMMOMIECC@<7215<?;3,###!1=;#%.2(!"  
3:OT5!2K>KaR,"Ltk9Eflg@\$0AEFGC?@CDEGHJMONJGEB=60,,2990'&&  
&))7:3& !  
0??APV8 3NC!SkZ2#OwtZFF[s~|obF!,FKHHHB>@DGFCDDJOQPMJD<40--/33,&#\$#\$,,%\$,\*  
,\*\$\*;E@?MU<,IHRIZ3.W{}}]Zajnmr[-q]O@#(BKEDGD>=DJHCAFLPRPKC:422221.\*"%27.&  
.,1&-@H?:GQ=&CH-Kg[94^yrpsutu{ }nS@:/'"2EFCFGB@EIGBBEHKRWUKB><9630+)"%#)-\$2E=#  
!+/(!<G;5HNA9DP@ " @E,IaU6Hpypt}|kUIKD#,KUNJKKJHDCCECFQZVJCEHD:3.\*)\*(BH6.RaM(  
&.1-#1?:2;MPA6?NF(%BH-IcZ;Kmztw~{qd[VK,\*H[YPMMLIECCCCBDLQPKJMLE:3.-00\$74"2EZ`Q6 +3662\$  
'9<<DRUI=?HD.'@F.D' [?#(Rtzv) xoeZO=\*4NZVNKLKHD@>=>@BDGLNKD<72,+/  
\$GVVWPB\*!(+1:B;&'7@DKTVOD@B>- 5?-=ZX?\$/Sq{~vrmh^N2 6MTRPOMID@@@>:79@HJF@:50+)+(   
&Tb]WTI0!#&;C?/!3>GOUVQIC@;.,9+<XW?%5Uq~}zwtneT8%?PTQMJFA=>AA;56=B@;62/--.  
%BZ]YTK7'.5=A>5+)0;EKMOPOKE@<1"-8\*A\W>' ;Wq{|zytiXA&4MVRIEFD@<<:524=:;8651-  
.,\*!\*"GX\XN;"!0:??@?<759DMNJHKNLFB>6(  
.6&@[V>=]z}zzzzseQ:#!9PWPHDCCC@90.3;@ @?=:5.(%#",+"   
7OYWM>) 3?B>9;:68BNSOIGHGEC?6(  
,5'<ZYA\*!>Zt)||{viT>)3KTPGBCED>856:>@?<:/#)+\$8R]WJ=.2CGB=;;:9:BLTURNLJHEA8+(2%>^C#+?}vzy  
xuqk\_O=-  
&?OOHBBB?<<:635;>=971'##&'CZbZK@5!0EHB=<>@BDGLQSPMKJIFC=1%#,5(7TQ<)'C' {xqlgc`]VLB8,"L  
JC?>=<<=820254-(- 0FYb^RF9.HLF@?@AACGNSSNIGFDB@;/#  
)2&4QQ@/!^~yqic\_||VI5"!3>@>>>;6576.%#"!),!0>LX]ZRG7-  
EJD@CGGECGMQPKGEDA?>=2#&1'2QTE6\*Aezpe]Z^a[K8)%1541,&#\$\$ #\*(  
2COUVVVUN<,CHDBDHEDGMQOJFDB>=@ @6%"#+#2LI7)"(Ijzsh`^a`ZPF9( !&(\*--  
\$1BQ[[SLNRN71CFCBEHGEDFJLKFA<<;@D=+#6NK<2,"+Ooxldcfc[RK6' #,.\*(.\*..)"&3CS\_c^RGEHE2  
4DGDBDFDFDCDGDJID=;;;=@;AWL5\*)\$/Qlwibcff\_TH<2\*\$ (031-\*+2983./340+),4BSaijdYNFA:(  
4DFBACFGCECFJJC:6:>>>>7%  
9RG2\*!.1Qlyohfgd\_UG9/.242.-28<==;;>=8448;:77<EP\goql`QD;1  
5DE?;=CHIGGHKI@626<?BD>-  
.LK=54.  
2Qk|~wqlgb\_[RF=;@CA??@AABDECBA?946?FHEFNX\_cflp\_NA80"+<B::?CEFHKMJC:79<=>@>6)%'.FC63  
73&4Qhy}ysmkki`QHIOQLGHLNLLNQOJGDB@CLTUQRybfcdgll`N>75-  
\$7>>>=BDDCDGIGA<=?@A?80+&/;4/5>)-  
F\o|~{vnpnph[SV]^VNMPRPNUVROOSUWZ^\_] [^cfedeijaO<222\$'= @;9=CFFEDDCA<:::9=BC<0&/634=C;)  
>Tfpvxywtsuvqha`cc` [ZWSPRUWWY\_fjhdcdddfdbacfbT?)-.\$\$>A:69?CDDCA?=:9:747>A9"-535>B:+  
%?Teouvvvvvtplhfdcccb\_Z[]\_`adhlnmkjjhfdca]ZZ\_eeYB+  
"=B;78=@BCB@ @=9678525>B8&#33\*,:DA6\*4IZdikmpppppnjecdgiihffghiihedfjff^Z`a^ZX]dh\_I/";C?9<@CC  
@>>><6025403=C9"\*:7+)6CC:-  
'?Q[afjlmnmc^)^adeebaced`][[]`ZRNZR`a^ZZ`geR55>=979=@ @?>?<5//11.1;@61A@4.4<>8-  
"6CMU`aa`\_ [ZZ[]^]ZXZ\ZTONPRPLHEEFIPZbda[\deT7  
6><879<?@?>=;5//00/2:7!&7AA:449AD;%#.7@GKMOQQQSTSOJGGGHJIE?<=>820137?JYbb\Zbh[?%!5;8  
569;<=<:841022/-08>8"-: @A>8218BA.%,16;??>>@?81024310-!'  
&5Ife`\_aYC,&8:5358988888742342139<4.;AA=93,,26+%!&(+\*\$!!  
3Ndlg`[TE0'8:41123333345300232379/,9>;79;6/06/8Uee`][P: '461.../245434201440.36-.9=85:@:\* %'  
A[c`][S@%'450--/1233224411353135+!0:=847:1 %\$# !! '\*,Qbb\YTE+)450-.011233342/-057789."/5:82./)! #%%#

'26\$@Z\_\[YK.+551/1222577431/-057789.%-188-"&87\*IVXZYK.\*685100125630010049<:9:1&..24-"  
\*7\*6LW\P5%4861-,-02322341/18;:9:2),#!\$&"! ./\$BT\O6%6;83/--.2454420.17999;2+\*%(((\$# -  
%2IUXP<"6<;73/,-04531/-+14567,(((\$&%#"!! \*+6FOL<29:84/+\*-/00.,,16996(') #%&\$\*AOQB#.6762.++-/0011-  
\*+07;;6&&)&#!.1+(&#=#PRB#\*47750-,-.021.\*+/454/ !&151) \*("DJ>"(38862/-,\*/1/-,.011, &%!!(1431.(%" "  
=I@%'045420/-,./-.143/"#%#\$+03540(#&!5GC\*% .244421/-,./0.,-152+! ##!" ).0111-" #;@/!+/3541/-.+0/--  
043+ \$&\$!"(+,,.0!2:.)0342.,,+)\*-/.032(#&%""&((,.\*5-&-010/.,+)(\*,-/24/" \$""#\$%()%)!/\$\*./-.\*)((,13- \$(\*" "  
"\$\$\$%&&\$ +)%\* ,+++\*(% % % % (-) #&'%" !! " !&))((('\$\$\$%&&'\*+% "#"! !!"#\$%\$ " !"#" !!

StartFontMetrics 4.1

Comment Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jun 23 16:28:46 1997

Comment UniqueID 43049

Comment VMusage 17529 79244

FontName Courier-BoldOblique

FullName Courier Bold Oblique

FamilyName Courier

Weight Bold

ItalicAngle -12

IsFixedPitch true

CharacterSet ExtendedRoman

FontBBox -57 -250 869 801

UnderlinePosition -100

UnderlineThickness 50

Version 003.000

Notice Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 439

Ascender 629

Descender -157

StdHW 84

StdVW 106

StartCharMetrics 315

C 32 ; WX 600 ; N space ; B 0 0 0 0 ;

C 33 ; WX 600 ; N exclam ; B 215 -15 495 572 ;

C 34 ; WX 600 ; N quotedbl ; B 211 277 585 562 ;

C 35 ; WX 600 ; N numbersign ; B 88 -45 641 651 ;

C 36 ; WX 600 ; N dollar ; B 87 -126 630 666 ;

C 37 ; WX 600 ; N percent ; B 101 -15 625 616 ;

C 38 ; WX 600 ; N ampersand ; B 61 -15 595 543 ;

C 39 ; WX 600 ; N quoteright ; B 229 277 543 562 ;

C 40 ; WX 600 ; N parenleft ; B 265 -102 592 616 ;

C 41 ; WX 600 ; N parenright ; B 117 -102 444 616 ;

C 42 ; WX 600 ; N asterisk ; B 179 219 598 601 ;

C 43 ; WX 600 ; N plus ; B 114 39 596 478 ;

C 44 ; WX 600 ; N comma ; B 99 -111 430 174 ;

C 45 ; WX 600 ; N hyphen ; B 143 203 567 313 ;

C 46 ; WX 600 ; N period ; B 206 -15 427 171 ;

C 47 ; WX 600 ; N slash ; B 90 -77 626 626 ;

C 48 ; WX 600 ; N zero ; B 135 -15 593 616 ;  
C 49 ; WX 600 ; N one ; B 93 0 562 616 ;  
C 50 ; WX 600 ; N two ; B 61 0 594 616 ;  
C 51 ; WX 600 ; N three ; B 71 -15 571 616 ;  
C 52 ; WX 600 ; N four ; B 81 0 559 616 ;  
C 53 ; WX 600 ; N five ; B 77 -15 621 601 ;  
C 54 ; WX 600 ; N six ; B 135 -15 652 616 ;  
C 55 ; WX 600 ; N seven ; B 147 0 622 601 ;  
C 56 ; WX 600 ; N eight ; B 115 -15 604 616 ;  
C 57 ; WX 600 ; N nine ; B 75 -15 592 616 ;  
C 58 ; WX 600 ; N colon ; B 205 -15 480 425 ;  
C 59 ; WX 600 ; N semicolon ; B 99 -111 481 425 ;  
C 60 ; WX 600 ; N less ; B 120 15 613 501 ;  
C 61 ; WX 600 ; N equal ; B 96 118 614 398 ;  
C 62 ; WX 600 ; N greater ; B 97 15 589 501 ;  
C 63 ; WX 600 ; N question ; B 183 -14 592 580 ;  
C 64 ; WX 600 ; N at ; B 65 -15 642 616 ;  
C 65 ; WX 600 ; N A ; B -9 0 632 562 ;  
C 66 ; WX 600 ; N B ; B 30 0 630 562 ;  
C 67 ; WX 600 ; N C ; B 74 -18 675 580 ;  
C 68 ; WX 600 ; N D ; B 30 0 664 562 ;  
C 69 ; WX 600 ; N E ; B 25 0 670 562 ;  
C 70 ; WX 600 ; N F ; B 39 0 684 562 ;  
C 71 ; WX 600 ; N G ; B 74 -18 675 580 ;  
C 72 ; WX 600 ; N H ; B 20 0 700 562 ;  
C 73 ; WX 600 ; N I ; B 77 0 643 562 ;  
C 74 ; WX 600 ; N J ; B 58 -18 721 562 ;  
C 75 ; WX 600 ; N K ; B 21 0 692 562 ;  
C 76 ; WX 600 ; N L ; B 39 0 636 562 ;  
C 77 ; WX 600 ; N M ; B -2 0 722 562 ;  
C 78 ; WX 600 ; N N ; B 8 -12 730 562 ;  
C 79 ; WX 600 ; N O ; B 74 -18 645 580 ;  
C 80 ; WX 600 ; N P ; B 48 0 643 562 ;  
C 81 ; WX 600 ; N Q ; B 83 -138 636 580 ;  
C 82 ; WX 600 ; N R ; B 24 0 617 562 ;  
C 83 ; WX 600 ; N S ; B 54 -22 673 582 ;  
C 84 ; WX 600 ; N T ; B 86 0 679 562 ;  
C 85 ; WX 600 ; N U ; B 101 -18 716 562 ;  
C 86 ; WX 600 ; N V ; B 84 0 733 562 ;  
C 87 ; WX 600 ; N W ; B 79 0 738 562 ;  
C 88 ; WX 600 ; N X ; B 12 0 690 562 ;  
C 89 ; WX 600 ; N Y ; B 109 0 709 562 ;  
C 90 ; WX 600 ; N Z ; B 62 0 637 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 223 -102 606 616 ;  
C 92 ; WX 600 ; N backslash ; B 222 -77 496 626 ;  
C 93 ; WX 600 ; N bracketright ; B 103 -102 486 616 ;  
C 94 ; WX 600 ; N asciicircum ; B 171 250 556 616 ;  
C 95 ; WX 600 ; N underscore ; B -27 -125 585 -75 ;

C 96 ; WX 600 ; N quoteleft ; B 297 277 487 562 ;  
C 97 ; WX 600 ; N a ; B 61 -15 593 454 ;  
C 98 ; WX 600 ; N b ; B 13 -15 636 626 ;  
C 99 ; WX 600 ; N c ; B 81 -15 631 459 ;  
C 100 ; WX 600 ; N d ; B 60 -15 645 626 ;  
C 101 ; WX 600 ; N e ; B 81 -15 605 454 ;  
C 102 ; WX 600 ; N f ; B 83 0 677 626 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 40 -146 674 454 ;  
C 104 ; WX 600 ; N h ; B 18 0 615 626 ;  
C 105 ; WX 600 ; N i ; B 77 0 546 658 ;  
C 106 ; WX 600 ; N j ; B 36 -146 580 658 ;  
C 107 ; WX 600 ; N k ; B 33 0 643 626 ;  
C 108 ; WX 600 ; N l ; B 77 0 546 626 ;  
C 109 ; WX 600 ; N m ; B -22 0 649 454 ;  
C 110 ; WX 600 ; N n ; B 18 0 615 454 ;  
C 111 ; WX 600 ; N o ; B 71 -15 622 454 ;  
C 112 ; WX 600 ; N p ; B -32 -142 622 454 ;  
C 113 ; WX 600 ; N q ; B 60 -142 685 454 ;  
C 114 ; WX 600 ; N r ; B 47 0 655 454 ;  
C 115 ; WX 600 ; N s ; B 66 -17 608 459 ;  
C 116 ; WX 600 ; N t ; B 118 -15 567 562 ;  
C 117 ; WX 600 ; N u ; B 70 -15 592 439 ;  
C 118 ; WX 600 ; N v ; B 70 0 695 439 ;  
C 119 ; WX 600 ; N w ; B 53 0 712 439 ;  
C 120 ; WX 600 ; N x ; B 6 0 671 439 ;  
C 121 ; WX 600 ; N y ; B -21 -142 695 439 ;  
C 122 ; WX 600 ; N z ; B 81 0 614 439 ;  
C 123 ; WX 600 ; N braceleft ; B 203 -102 595 616 ;  
C 124 ; WX 600 ; N bar ; B 201 -250 505 750 ;  
C 125 ; WX 600 ; N braceright ; B 114 -102 506 616 ;  
C 126 ; WX 600 ; N asciitilde ; B 120 153 590 356 ;  
C 161 ; WX 600 ; N exclamdown ; B 196 -146 477 449 ;  
C 162 ; WX 600 ; N cent ; B 121 -49 605 614 ;  
C 163 ; WX 600 ; N sterling ; B 106 -28 650 611 ;  
C 164 ; WX 600 ; N fraction ; B 22 -60 708 661 ;  
C 165 ; WX 600 ; N yen ; B 98 0 710 562 ;  
C 166 ; WX 600 ; N florin ; B -57 -131 702 616 ;  
C 167 ; WX 600 ; N section ; B 74 -70 620 580 ;  
C 168 ; WX 600 ; N currency ; B 77 49 644 517 ;  
C 169 ; WX 600 ; N quotesingle ; B 303 277 493 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 190 277 594 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 62 70 639 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 195 70 545 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 165 70 514 446 ;  
C 174 ; WX 600 ; N fi ; B 12 0 644 626 ;  
C 175 ; WX 600 ; N fl ; B 12 0 644 626 ;  
C 177 ; WX 600 ; N endash ; B 108 203 602 313 ;  
C 178 ; WX 600 ; N dagger ; B 175 -70 586 580 ;

C 179 ; WX 600 ; N daggerdbl ; B 121 -70 587 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 248 165 461 351 ;  
C 182 ; WX 600 ; N paragraph ; B 61 -70 700 580 ;  
C 183 ; WX 600 ; N bullet ; B 196 132 523 430 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 144 -142 458 143 ;  
C 185 ; WX 600 ; N quotedblbase ; B 34 -142 560 143 ;  
C 186 ; WX 600 ; N quotedblright ; B 119 277 645 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 71 70 647 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 35 -15 587 116 ;  
C 189 ; WX 600 ; N perthousand ; B -45 -15 743 616 ;  
C 191 ; WX 600 ; N questiondown ; B 100 -146 509 449 ;  
C 193 ; WX 600 ; N grave ; B 272 508 503 661 ;  
C 194 ; WX 600 ; N acute ; B 312 508 609 661 ;  
C 195 ; WX 600 ; N circumflex ; B 212 483 607 657 ;  
C 196 ; WX 600 ; N tilde ; B 199 493 643 636 ;  
C 197 ; WX 600 ; N macron ; B 195 505 637 585 ;  
C 198 ; WX 600 ; N breve ; B 217 468 652 631 ;  
C 199 ; WX 600 ; N dotaccent ; B 348 498 493 638 ;  
C 200 ; WX 600 ; N dieresis ; B 246 498 595 638 ;  
C 202 ; WX 600 ; N ring ; B 319 481 528 678 ;  
C 203 ; WX 600 ; N cedilla ; B 168 -206 368 0 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 171 488 729 661 ;  
C 206 ; WX 600 ; N ogonek ; B 143 -199 367 0 ;  
C 207 ; WX 600 ; N caron ; B 238 493 633 667 ;  
C 208 ; WX 600 ; N emdash ; B 33 203 677 313 ;  
C 225 ; WX 600 ; N AE ; B -29 0 708 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 188 196 526 580 ;  
C 232 ; WX 600 ; N Lslash ; B 39 0 636 562 ;  
C 233 ; WX 600 ; N Oslash ; B 48 -22 673 584 ;  
C 234 ; WX 600 ; N OE ; B 26 0 701 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 188 196 543 580 ;  
C 241 ; WX 600 ; N ae ; B 21 -15 652 454 ;  
C 245 ; WX 600 ; N dotlessi ; B 77 0 546 439 ;  
C 248 ; WX 600 ; N lslash ; B 77 0 587 626 ;  
C 249 ; WX 600 ; N oslash ; B 54 -24 638 463 ;  
C 250 ; WX 600 ; N oe ; B 18 -15 662 454 ;  
C 251 ; WX 600 ; N germandbls ; B 22 -15 629 626 ;  
C -1 ; WX 600 ; N Idieresis ; B 77 0 643 761 ;  
C -1 ; WX 600 ; N eacute ; B 81 -15 609 661 ;  
C -1 ; WX 600 ; N abreve ; B 61 -15 658 661 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B 70 -15 769 661 ;  
C -1 ; WX 600 ; N ecaron ; B 81 -15 633 667 ;  
C -1 ; WX 600 ; N Ydieresis ; B 109 0 709 761 ;  
C -1 ; WX 600 ; N divide ; B 114 16 596 500 ;  
C -1 ; WX 600 ; N Yacute ; B 109 0 709 784 ;  
C -1 ; WX 600 ; N Acircumflex ; B -9 0 632 780 ;  
C -1 ; WX 600 ; N aacute ; B 61 -15 609 661 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 101 -18 716 780 ;

C -1 ; WX 600 ; N yacute ; B -21 -142 695 661 ;  
C -1 ; WX 600 ; N scommaaccent ; B 66 -250 608 459 ;  
C -1 ; WX 600 ; N ecircumflex ; B 81 -15 607 657 ;  
C -1 ; WX 600 ; N Uring ; B 101 -18 716 801 ;  
C -1 ; WX 600 ; N Udieresis ; B 101 -18 716 761 ;  
C -1 ; WX 600 ; N aogonek ; B 61 -199 593 454 ;  
C -1 ; WX 600 ; N Uacute ; B 101 -18 716 784 ;  
C -1 ; WX 600 ; N uogonek ; B 70 -199 592 439 ;  
C -1 ; WX 600 ; N Edieresis ; B 25 0 670 761 ;  
C -1 ; WX 600 ; N Dcroat ; B 30 0 664 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 151 -250 385 -57 ;  
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N Emacron ; B 25 0 670 708 ;  
C -1 ; WX 600 ; N ccaron ; B 81 -15 633 667 ;  
C -1 ; WX 600 ; N aring ; B 61 -15 593 678 ;  
C -1 ; WX 600 ; N Ncommaaccent ; B 8 -250 730 562 ;  
C -1 ; WX 600 ; N lacute ; B 77 0 639 801 ;  
C -1 ; WX 600 ; N agrave ; B 61 -15 593 661 ;  
C -1 ; WX 600 ; N Tcommaaccent ; B 86 -250 679 562 ;  
C -1 ; WX 600 ; N Cacute ; B 74 -18 675 784 ;  
C -1 ; WX 600 ; N atilde ; B 61 -15 643 636 ;  
C -1 ; WX 600 ; N Edotaccent ; B 25 0 670 761 ;  
C -1 ; WX 600 ; N scaron ; B 66 -17 633 667 ;  
C -1 ; WX 600 ; N scedilla ; B 66 -206 608 459 ;  
C -1 ; WX 600 ; N iacute ; B 77 0 609 661 ;  
C -1 ; WX 600 ; N lozenge ; B 145 0 614 740 ;  
C -1 ; WX 600 ; N Rcaron ; B 24 0 659 790 ;  
C -1 ; WX 600 ; N Gcommaaccent ; B 74 -250 675 580 ;  
C -1 ; WX 600 ; N ucircumflex ; B 70 -15 597 657 ;  
C -1 ; WX 600 ; N acircumflex ; B 61 -15 607 657 ;  
C -1 ; WX 600 ; N Amacron ; B -9 0 633 708 ;  
C -1 ; WX 600 ; N rcaron ; B 47 0 655 667 ;  
C -1 ; WX 600 ; N ccedilla ; B 81 -206 631 459 ;  
C -1 ; WX 600 ; N Zdotaccent ; B 62 0 637 761 ;  
C -1 ; WX 600 ; N Thorn ; B 48 0 620 562 ;  
C -1 ; WX 600 ; N Omacron ; B 74 -18 663 708 ;  
C -1 ; WX 600 ; N Racute ; B 24 0 665 784 ;  
C -1 ; WX 600 ; N Sacute ; B 54 -22 673 784 ;  
C -1 ; WX 600 ; N dcaron ; B 60 -15 861 626 ;  
C -1 ; WX 600 ; N Umacron ; B 101 -18 716 708 ;  
C -1 ; WX 600 ; N uring ; B 70 -15 592 678 ;  
C -1 ; WX 600 ; N threesuperior ; B 193 222 526 616 ;  
C -1 ; WX 600 ; N Ograve ; B 74 -18 645 784 ;  
C -1 ; WX 600 ; N Agrave ; B -9 0 632 784 ;  
C -1 ; WX 600 ; N Abreve ; B -9 0 684 784 ;  
C -1 ; WX 600 ; N multiply ; B 104 39 606 478 ;  
C -1 ; WX 600 ; N uacute ; B 70 -15 599 661 ;  
C -1 ; WX 600 ; N Tcaron ; B 86 0 679 790 ;

C -1 ; WX 600 ; N partialdiff ; B 91 -38 627 728 ;  
C -1 ; WX 600 ; N ydieresis ; B -21 -142 695 638 ;  
C -1 ; WX 600 ; N Nacute ; B 8 -12 730 784 ;  
C -1 ; WX 600 ; N icircumflex ; B 77 0 577 657 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 25 0 670 780 ;  
C -1 ; WX 600 ; N adieresis ; B 61 -15 595 638 ;  
C -1 ; WX 600 ; N edieresis ; B 81 -15 605 638 ;  
C -1 ; WX 600 ; N cacute ; B 81 -15 649 661 ;  
C -1 ; WX 600 ; N nacute ; B 18 0 639 661 ;  
C -1 ; WX 600 ; N umacron ; B 70 -15 637 585 ;  
C -1 ; WX 600 ; N Ncaron ; B 8 -12 730 790 ;  
C -1 ; WX 600 ; N Iacute ; B 77 0 643 784 ;  
C -1 ; WX 600 ; N plusminus ; B 76 24 614 515 ;  
C -1 ; WX 600 ; N brokenbar ; B 217 -175 489 675 ;  
C -1 ; WX 600 ; N registered ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N Gbreve ; B 74 -18 684 784 ;  
C -1 ; WX 600 ; N Idotaccent ; B 77 0 643 761 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 672 706 ;  
C -1 ; WX 600 ; N Egrave ; B 25 0 670 784 ;  
C -1 ; WX 600 ; N racute ; B 47 0 655 661 ;  
C -1 ; WX 600 ; N omacron ; B 71 -15 637 585 ;  
C -1 ; WX 600 ; N Zacute ; B 62 0 665 784 ;  
C -1 ; WX 600 ; N Zcaron ; B 62 0 659 790 ;  
C -1 ; WX 600 ; N greaterequal ; B 26 0 627 696 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 664 562 ;  
C -1 ; WX 600 ; N Ccedilla ; B 74 -206 675 580 ;  
C -1 ; WX 600 ; N lcommaaccent ; B 77 -250 546 626 ;  
C -1 ; WX 600 ; N tcaron ; B 118 -15 627 703 ;  
C -1 ; WX 600 ; N eogonek ; B 81 -199 605 454 ;  
C -1 ; WX 600 ; N Uogonek ; B 101 -199 716 562 ;  
C -1 ; WX 600 ; N Aacute ; B -9 0 655 784 ;  
C -1 ; WX 600 ; N Adieresis ; B -9 0 632 761 ;  
C -1 ; WX 600 ; N egrave ; B 81 -15 605 661 ;  
C -1 ; WX 600 ; N zacute ; B 81 0 614 661 ;  
C -1 ; WX 600 ; N iogonek ; B 77 -199 546 658 ;  
C -1 ; WX 600 ; N Oacute ; B 74 -18 645 784 ;  
C -1 ; WX 600 ; N oacute ; B 71 -15 649 661 ;  
C -1 ; WX 600 ; N amacron ; B 61 -15 637 585 ;  
C -1 ; WX 600 ; N sacute ; B 66 -17 609 661 ;  
C -1 ; WX 600 ; N idieresis ; B 77 0 561 618 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 74 -18 645 780 ;  
C -1 ; WX 600 ; N Ugrave ; B 101 -18 716 784 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;  
C -1 ; WX 600 ; N thorn ; B -32 -142 622 626 ;  
C -1 ; WX 600 ; N twosuperior ; B 191 230 542 616 ;  
C -1 ; WX 600 ; N Odieresis ; B 74 -18 645 761 ;  
C -1 ; WX 600 ; N mu ; B 49 -142 592 439 ;  
C -1 ; WX 600 ; N igrave ; B 77 0 546 661 ;



C -1 ; WX 600 ; N ohungarumlaut ; B 71 -15 809 661 ;  
C -1 ; WX 600 ; N Eogonek ; B 25 -199 670 562 ;  
C -1 ; WX 600 ; N dcroat ; B 60 -15 712 626 ;  
C -1 ; WX 600 ; N threequarters ; B 8 -60 699 661 ;  
C -1 ; WX 600 ; N Scedilla ; B 54 -206 673 582 ;  
C -1 ; WX 600 ; N lcaron ; B 77 0 731 626 ;  
C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 692 562 ;  
C -1 ; WX 600 ; N Lacute ; B 39 0 636 784 ;  
C -1 ; WX 600 ; N trademark ; B 86 230 869 562 ;  
C -1 ; WX 600 ; N edotaccent ; B 81 -15 605 638 ;  
C -1 ; WX 600 ; N Igrave ; B 77 0 643 784 ;  
C -1 ; WX 600 ; N Imacron ; B 77 0 663 708 ;  
C -1 ; WX 600 ; N Lcaron ; B 39 0 757 562 ;  
C -1 ; WX 600 ; N onehalf ; B 22 -60 716 661 ;  
C -1 ; WX 600 ; N lessequal ; B 26 0 671 696 ;  
C -1 ; WX 600 ; N ocircumflex ; B 71 -15 622 657 ;  
C -1 ; WX 600 ; N ntilde ; B 18 0 643 636 ;  
C -1 ; WX 600 ; N Uhungarumlaut ; B 101 -18 805 784 ;  
C -1 ; WX 600 ; N Eacute ; B 25 0 670 784 ;  
C -1 ; WX 600 ; N emacron ; B 81 -15 637 585 ;  
C -1 ; WX 600 ; N gbreve ; B 40 -146 674 661 ;  
C -1 ; WX 600 ; N onequarter ; B 13 -60 707 661 ;  
C -1 ; WX 600 ; N Scaron ; B 54 -22 689 790 ;  
C -1 ; WX 600 ; N Scommaaccent ; B 54 -250 673 582 ;  
C -1 ; WX 600 ; N Ohungarumlaut ; B 74 -18 795 784 ;  
C -1 ; WX 600 ; N degree ; B 173 243 570 616 ;  
C -1 ; WX 600 ; N ograve ; B 71 -15 622 661 ;  
C -1 ; WX 600 ; N Ccaron ; B 74 -18 689 790 ;  
C -1 ; WX 600 ; N ugrave ; B 70 -15 592 661 ;  
C -1 ; WX 600 ; N radical ; B 67 -104 635 778 ;  
C -1 ; WX 600 ; N Dcaron ; B 30 0 664 790 ;  
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 655 454 ;  
C -1 ; WX 600 ; N Ntilde ; B 8 -12 730 759 ;  
C -1 ; WX 600 ; N otilde ; B 71 -15 643 636 ;  
C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 617 562 ;  
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 636 562 ;  
C -1 ; WX 600 ; N Atilde ; B -9 0 669 759 ;  
C -1 ; WX 600 ; N Aogonek ; B -9 -199 632 562 ;  
C -1 ; WX 600 ; N Aring ; B -9 0 632 801 ;  
C -1 ; WX 600 ; N Otilde ; B 74 -18 669 759 ;  
C -1 ; WX 600 ; N zdotaccent ; B 81 0 614 638 ;  
C -1 ; WX 600 ; N Ecaron ; B 25 0 670 790 ;  
C -1 ; WX 600 ; N Iogonek ; B 77 -199 643 562 ;  
C -1 ; WX 600 ; N kcommaaccent ; B 33 -250 643 626 ;  
C -1 ; WX 600 ; N minus ; B 114 203 596 313 ;  
C -1 ; WX 600 ; N Icircumflex ; B 77 0 643 780 ;  
C -1 ; WX 600 ; N ncaron ; B 18 0 633 667 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 118 -250 567 562 ;

C -1 ; WX 600 ; N logicalnot ; B 135 103 617 413 ;  
C -1 ; WX 600 ; N odieresis ; B 71 -15 622 638 ;  
C -1 ; WX 600 ; N udieresis ; B 70 -15 595 638 ;  
C -1 ; WX 600 ; N notequal ; B 30 -47 626 563 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 40 -146 674 714 ;  
C -1 ; WX 600 ; N eth ; B 93 -27 661 626 ;  
C -1 ; WX 600 ; N zcaron ; B 81 0 643 667 ;  
C -1 ; WX 600 ; N ncommaaccent ; B 18 -250 615 454 ;  
C -1 ; WX 600 ; N onesuperior ; B 212 230 514 616 ;  
C -1 ; WX 600 ; N imacron ; B 77 0 575 585 ;  
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:38:23 1997

Comment UniqueID 43054

Comment VMusage 37069 48094

FontName Helvetica

FullName Helvetica

FamilyName Helvetica

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -166 -225 1000 931

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype-Hell AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StdHW 76

StdVW 88

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 278 ; N exclam ; B 90 0 187 718 ;

C 34 ; WX 355 ; N quotedbl ; B 70 463 285 718 ;

C 35 ; WX 556 ; N numbersign ; B 28 0 529 688 ;

C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;

C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;

C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;

C 39 ; WX 222 ; N quoteright ; B 53 463 157 718 ;

C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;

C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;  
C 42 ; WX 389 ; N asterisk ; B 39 431 349 718 ;  
C 43 ; WX 584 ; N plus ; B 39 0 545 505 ;  
C 44 ; WX 278 ; N comma ; B 87 -147 191 106 ;  
C 45 ; WX 333 ; N hyphen ; B 44 232 289 322 ;  
C 46 ; WX 278 ; N period ; B 87 0 191 106 ;  
C 47 ; WX 278 ; N slash ; B -17 -19 295 737 ;  
C 48 ; WX 556 ; N zero ; B 37 -19 519 703 ;  
C 49 ; WX 556 ; N one ; B 101 0 359 703 ;  
C 50 ; WX 556 ; N two ; B 26 0 507 703 ;  
C 51 ; WX 556 ; N three ; B 34 -19 522 703 ;  
C 52 ; WX 556 ; N four ; B 25 0 523 703 ;  
C 53 ; WX 556 ; N five ; B 32 -19 514 688 ;  
C 54 ; WX 556 ; N six ; B 38 -19 518 703 ;  
C 55 ; WX 556 ; N seven ; B 37 0 523 688 ;  
C 56 ; WX 556 ; N eight ; B 38 -19 517 703 ;  
C 57 ; WX 556 ; N nine ; B 42 -19 514 703 ;  
C 58 ; WX 278 ; N colon ; B 87 0 191 516 ;  
C 59 ; WX 278 ; N semicolon ; B 87 -147 191 516 ;  
C 60 ; WX 584 ; N less ; B 48 11 536 495 ;  
C 61 ; WX 584 ; N equal ; B 39 115 545 390 ;  
C 62 ; WX 584 ; N greater ; B 48 11 536 495 ;  
C 63 ; WX 556 ; N question ; B 56 0 492 727 ;  
C 64 ; WX 1015 ; N at ; B 147 -19 868 737 ;  
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;  
C 66 ; WX 667 ; N B ; B 74 0 627 718 ;  
C 67 ; WX 722 ; N C ; B 44 -19 681 737 ;  
C 68 ; WX 722 ; N D ; B 81 0 674 718 ;  
C 69 ; WX 667 ; N E ; B 86 0 616 718 ;  
C 70 ; WX 611 ; N F ; B 86 0 583 718 ;  
C 71 ; WX 778 ; N G ; B 48 -19 704 737 ;  
C 72 ; WX 722 ; N H ; B 77 0 646 718 ;  
C 73 ; WX 278 ; N I ; B 91 0 188 718 ;  
C 74 ; WX 500 ; N J ; B 17 -19 428 718 ;  
C 75 ; WX 667 ; N K ; B 76 0 663 718 ;  
C 76 ; WX 556 ; N L ; B 76 0 537 718 ;  
C 77 ; WX 833 ; N M ; B 73 0 761 718 ;  
C 78 ; WX 722 ; N N ; B 76 0 646 718 ;  
C 79 ; WX 778 ; N O ; B 39 -19 739 737 ;  
C 80 ; WX 667 ; N P ; B 86 0 622 718 ;  
C 81 ; WX 778 ; N Q ; B 39 -56 739 737 ;  
C 82 ; WX 722 ; N R ; B 88 0 684 718 ;  
C 83 ; WX 667 ; N S ; B 49 -19 620 737 ;  
C 84 ; WX 611 ; N T ; B 14 0 597 718 ;  
C 85 ; WX 722 ; N U ; B 79 -19 644 718 ;  
C 86 ; WX 667 ; N V ; B 20 0 647 718 ;  
C 87 ; WX 944 ; N W ; B 16 0 928 718 ;  
C 88 ; WX 667 ; N X ; B 19 0 648 718 ;

C 89 ; WX 667 ; N Y ; B 14 0 653 718 ;  
C 90 ; WX 611 ; N Z ; B 23 0 588 718 ;  
C 91 ; WX 278 ; N bracketleft ; B 63 -196 250 722 ;  
C 92 ; WX 278 ; N backslash ; B -17 -19 295 737 ;  
C 93 ; WX 278 ; N bracketright ; B 28 -196 215 722 ;  
C 94 ; WX 469 ; N asciicircum ; B -14 264 483 688 ;  
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;  
C 96 ; WX 222 ; N quoteleft ; B 65 470 169 725 ;  
C 97 ; WX 556 ; N a ; B 36 -15 530 538 ;  
C 98 ; WX 556 ; N b ; B 58 -15 517 718 ;  
C 99 ; WX 500 ; N c ; B 30 -15 477 538 ;  
C 100 ; WX 556 ; N d ; B 35 -15 499 718 ;  
C 101 ; WX 556 ; N e ; B 40 -15 516 538 ;  
C 102 ; WX 278 ; N f ; B 14 0 262 728 ; L i fi ; L l fl ;  
C 103 ; WX 556 ; N g ; B 40 -220 499 538 ;  
C 104 ; WX 556 ; N h ; B 65 0 491 718 ;  
C 105 ; WX 222 ; N i ; B 67 0 155 718 ;  
C 106 ; WX 222 ; N j ; B -16 -210 155 718 ;  
C 107 ; WX 500 ; N k ; B 67 0 501 718 ;  
C 108 ; WX 222 ; N l ; B 67 0 155 718 ;  
C 109 ; WX 833 ; N m ; B 65 0 769 538 ;  
C 110 ; WX 556 ; N n ; B 65 0 491 538 ;  
C 111 ; WX 556 ; N o ; B 35 -14 521 538 ;  
C 112 ; WX 556 ; N p ; B 58 -207 517 538 ;  
C 113 ; WX 556 ; N q ; B 35 -207 494 538 ;  
C 114 ; WX 333 ; N r ; B 77 0 332 538 ;  
C 115 ; WX 500 ; N s ; B 32 -15 464 538 ;  
C 116 ; WX 278 ; N t ; B 14 -7 257 669 ;  
C 117 ; WX 556 ; N u ; B 68 -15 489 523 ;  
C 118 ; WX 500 ; N v ; B 8 0 492 523 ;  
C 119 ; WX 722 ; N w ; B 14 0 709 523 ;  
C 120 ; WX 500 ; N x ; B 11 0 490 523 ;  
C 121 ; WX 500 ; N y ; B 11 -214 489 523 ;  
C 122 ; WX 500 ; N z ; B 31 0 469 523 ;  
C 123 ; WX 334 ; N braceleft ; B 42 -196 292 722 ;  
C 124 ; WX 260 ; N bar ; B 94 -225 167 775 ;  
C 125 ; WX 334 ; N braceright ; B 42 -196 292 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 61 180 523 326 ;  
C 161 ; WX 333 ; N exclamdown ; B 118 -195 215 523 ;  
C 162 ; WX 556 ; N cent ; B 51 -115 513 623 ;  
C 163 ; WX 556 ; N sterling ; B 33 -16 539 718 ;  
C 164 ; WX 167 ; N fraction ; B -166 -19 333 703 ;  
C 165 ; WX 556 ; N yen ; B 3 0 553 688 ;  
C 166 ; WX 556 ; N florin ; B -11 -207 501 737 ;  
C 167 ; WX 556 ; N section ; B 43 -191 512 737 ;  
C 168 ; WX 556 ; N currency ; B 28 99 528 603 ;  
C 169 ; WX 191 ; N quotesingle ; B 59 463 132 718 ;  
C 170 ; WX 333 ; N quotedblleft ; B 38 470 307 725 ;

C 171 ; WX 556 ; N guillemotleft ; B 97 108 459 446 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 88 108 245 446 ;  
C 173 ; WX 333 ; N guilsinglright ; B 88 108 245 446 ;  
C 174 ; WX 500 ; N fi ; B 14 0 434 728 ;  
C 175 ; WX 500 ; N fl ; B 14 0 432 728 ;  
C 177 ; WX 556 ; N endash ; B 0 240 556 313 ;  
C 178 ; WX 556 ; N dagger ; B 43 -159 514 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 43 -159 514 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 77 190 202 315 ;  
C 182 ; WX 537 ; N paragraph ; B 18 -173 497 718 ;  
C 183 ; WX 350 ; N bullet ; B 18 202 333 517 ;  
C 184 ; WX 222 ; N quotesinglbase ; B 53 -149 157 106 ;  
C 185 ; WX 333 ; N quotedblbase ; B 26 -149 295 106 ;  
C 186 ; WX 333 ; N quotedblright ; B 26 463 295 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 97 108 459 446 ;  
C 188 ; WX 1000 ; N ellipsis ; B 115 0 885 106 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 703 ;  
C 191 ; WX 611 ; N questiondown ; B 91 -201 527 525 ;  
C 193 ; WX 333 ; N grave ; B 14 593 211 734 ;  
C 194 ; WX 333 ; N acute ; B 122 593 319 734 ;  
C 195 ; WX 333 ; N circumflex ; B 21 593 312 734 ;  
C 196 ; WX 333 ; N tilde ; B -4 606 337 722 ;  
C 197 ; WX 333 ; N macron ; B 10 627 323 684 ;  
C 198 ; WX 333 ; N breve ; B 13 595 321 731 ;  
C 199 ; WX 333 ; N dotaccent ; B 121 604 212 706 ;  
C 200 ; WX 333 ; N dieresis ; B 40 604 293 706 ;  
C 202 ; WX 333 ; N ring ; B 75 572 259 756 ;  
C 203 ; WX 333 ; N cedilla ; B 45 -225 259 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 31 593 409 734 ;  
C 206 ; WX 333 ; N ogonek ; B 73 -225 287 0 ;  
C 207 ; WX 333 ; N caron ; B 21 593 312 734 ;  
C 208 ; WX 1000 ; N emdash ; B 0 240 1000 313 ;  
C 225 ; WX 1000 ; N AE ; B 8 0 951 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 24 405 346 737 ;  
C 232 ; WX 556 ; N Lslash ; B -20 0 537 718 ;  
C 233 ; WX 778 ; N Oslash ; B 39 -19 740 737 ;  
C 234 ; WX 1000 ; N OE ; B 36 -19 965 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 25 405 341 737 ;  
C 241 ; WX 889 ; N ae ; B 36 -15 847 538 ;  
C 245 ; WX 278 ; N dotlessi ; B 95 0 183 523 ;  
C 248 ; WX 222 ; N lslash ; B -20 0 242 718 ;  
C 249 ; WX 611 ; N oslash ; B 28 -22 537 545 ;  
C 250 ; WX 944 ; N oe ; B 35 -15 902 538 ;  
C 251 ; WX 611 ; N germandbls ; B 67 -15 571 728 ;  
C -1 ; WX 278 ; N Idieresis ; B 13 0 266 901 ;  
C -1 ; WX 556 ; N eacute ; B 40 -15 516 734 ;  
C -1 ; WX 556 ; N abreve ; B 36 -15 530 731 ;  
C -1 ; WX 556 ; N uhungarumlaut ; B 68 -15 521 734 ;

C -1 ; WX 556 ; N ecaron ; B 40 -15 516 734 ;  
C -1 ; WX 667 ; N Ydieresis ; B 14 0 653 901 ;  
C -1 ; WX 584 ; N divide ; B 39 -19 545 524 ;  
C -1 ; WX 667 ; N Yacute ; B 14 0 653 929 ;  
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;  
C -1 ; WX 556 ; N aacute ; B 36 -15 530 734 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 79 -19 644 929 ;  
C -1 ; WX 500 ; N yacute ; B 11 -214 489 734 ;  
C -1 ; WX 500 ; N scommaaccent ; B 32 -225 464 538 ;  
C -1 ; WX 556 ; N ecircumflex ; B 40 -15 516 734 ;  
C -1 ; WX 722 ; N Uring ; B 79 -19 644 931 ;  
C -1 ; WX 722 ; N Udieresis ; B 79 -19 644 901 ;  
C -1 ; WX 556 ; N aogonek ; B 36 -220 547 538 ;  
C -1 ; WX 722 ; N Uacute ; B 79 -19 644 929 ;  
C -1 ; WX 556 ; N uogonek ; B 68 -225 519 523 ;  
C -1 ; WX 667 ; N Edieresis ; B 86 0 616 901 ;  
C -1 ; WX 722 ; N Dcroat ; B 0 0 674 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 87 -225 181 -40 ;  
C -1 ; WX 737 ; N copyright ; B -14 -19 752 737 ;  
C -1 ; WX 667 ; N Emacron ; B 86 0 616 879 ;  
C -1 ; WX 500 ; N ccaron ; B 30 -15 477 734 ;  
C -1 ; WX 556 ; N aring ; B 36 -15 530 756 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 76 -225 646 718 ;  
C -1 ; WX 222 ; N lacute ; B 67 0 264 929 ;  
C -1 ; WX 556 ; N agrave ; B 36 -15 530 734 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 14 -225 597 718 ;  
C -1 ; WX 722 ; N Cacute ; B 44 -19 681 929 ;  
C -1 ; WX 556 ; N atilde ; B 36 -15 530 722 ;  
C -1 ; WX 667 ; N Edotaccent ; B 86 0 616 901 ;  
C -1 ; WX 500 ; N scaron ; B 32 -15 464 734 ;  
C -1 ; WX 500 ; N scedilla ; B 32 -225 464 538 ;  
C -1 ; WX 278 ; N iacute ; B 95 0 292 734 ;  
C -1 ; WX 471 ; N lozenge ; B 10 0 462 728 ;  
C -1 ; WX 722 ; N Rcaron ; B 88 0 684 929 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 48 -225 704 737 ;  
C -1 ; WX 556 ; N ucircumflex ; B 68 -15 489 734 ;  
C -1 ; WX 556 ; N acircumflex ; B 36 -15 530 734 ;  
C -1 ; WX 667 ; N Amacron ; B 14 0 654 879 ;  
C -1 ; WX 333 ; N rcaron ; B 61 0 352 734 ;  
C -1 ; WX 500 ; N ccedilla ; B 30 -225 477 538 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 23 0 588 901 ;  
C -1 ; WX 667 ; N Thorn ; B 86 0 622 718 ;  
C -1 ; WX 778 ; N Omacron ; B 39 -19 739 879 ;  
C -1 ; WX 722 ; N Racute ; B 88 0 684 929 ;  
C -1 ; WX 667 ; N Sacute ; B 49 -19 620 929 ;  
C -1 ; WX 643 ; N dcaron ; B 35 -15 655 718 ;  
C -1 ; WX 722 ; N Umacron ; B 79 -19 644 879 ;  
C -1 ; WX 556 ; N uring ; B 68 -15 489 756 ;

C -1 ; WX 333 ; N threesuperior ; B 5 270 325 703 ;  
C -1 ; WX 778 ; N Ograve ; B 39 -19 739 929 ;  
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;  
C -1 ; WX 667 ; N Abreve ; B 14 0 654 926 ;  
C -1 ; WX 584 ; N multiply ; B 39 0 545 506 ;  
C -1 ; WX 556 ; N uacute ; B 68 -15 489 734 ;  
C -1 ; WX 611 ; N Tcaron ; B 14 0 597 929 ;  
C -1 ; WX 476 ; N partialdiff ; B 13 -38 463 714 ;  
C -1 ; WX 500 ; N ydieresis ; B 11 -214 489 706 ;  
C -1 ; WX 722 ; N Nacute ; B 76 0 646 929 ;  
C -1 ; WX 278 ; N icircumflex ; B -6 0 285 734 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 616 929 ;  
C -1 ; WX 556 ; N adieresis ; B 36 -15 530 706 ;  
C -1 ; WX 556 ; N edieresis ; B 40 -15 516 706 ;  
C -1 ; WX 500 ; N cacute ; B 30 -15 477 734 ;  
C -1 ; WX 556 ; N nacute ; B 65 0 491 734 ;  
C -1 ; WX 556 ; N umacron ; B 68 -15 489 684 ;  
C -1 ; WX 722 ; N Ncaron ; B 76 0 646 929 ;  
C -1 ; WX 278 ; N Iacute ; B 91 0 292 929 ;  
C -1 ; WX 584 ; N plusminus ; B 39 0 545 506 ;  
C -1 ; WX 260 ; N brokenbar ; B 94 -150 167 700 ;  
C -1 ; WX 737 ; N registered ; B -14 -19 752 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 48 -19 704 926 ;  
C -1 ; WX 278 ; N Idotaccent ; B 91 0 188 901 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 586 706 ;  
C -1 ; WX 667 ; N Egrave ; B 86 0 616 929 ;  
C -1 ; WX 333 ; N racute ; B 77 0 332 734 ;  
C -1 ; WX 556 ; N omacron ; B 35 -14 521 684 ;  
C -1 ; WX 611 ; N Zacute ; B 23 0 588 929 ;  
C -1 ; WX 611 ; N Zcaron ; B 23 0 588 929 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 674 ;  
C -1 ; WX 722 ; N Eth ; B 0 0 674 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -225 681 737 ;  
C -1 ; WX 222 ; N lcommaaccent ; B 67 -225 167 718 ;  
C -1 ; WX 317 ; N tcaron ; B 14 -7 329 808 ;  
C -1 ; WX 556 ; N eogonek ; B 40 -225 516 538 ;  
C -1 ; WX 722 ; N Uogonek ; B 79 -225 644 718 ;  
C -1 ; WX 667 ; N Aacute ; B 14 0 654 929 ;  
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;  
C -1 ; WX 556 ; N egrave ; B 40 -15 516 734 ;  
C -1 ; WX 500 ; N zacute ; B 31 0 469 734 ;  
C -1 ; WX 222 ; N iogonek ; B -31 -225 183 718 ;  
C -1 ; WX 778 ; N Oacute ; B 39 -19 739 929 ;  
C -1 ; WX 556 ; N oacute ; B 35 -14 521 734 ;  
C -1 ; WX 556 ; N amacron ; B 36 -15 530 684 ;  
C -1 ; WX 500 ; N sacute ; B 32 -15 464 734 ;  
C -1 ; WX 278 ; N idieresis ; B 13 0 266 706 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 39 -19 739 929 ;

C -1 ; WX 722 ; N Ugrave ; B 79 -19 644 929 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 556 ; N thorn ; B 58 -207 517 718 ;  
C -1 ; WX 333 ; N twosuperior ; B 4 281 323 703 ;  
C -1 ; WX 778 ; N Odieresis ; B 39 -19 739 901 ;  
C -1 ; WX 556 ; N mu ; B 68 -207 489 523 ;  
C -1 ; WX 278 ; N igrave ; B -13 0 184 734 ;  
C -1 ; WX 556 ; N ohungarumlaut ; B 35 -14 521 734 ;  
C -1 ; WX 667 ; N Eogonek ; B 86 -220 633 718 ;  
C -1 ; WX 556 ; N dcroat ; B 35 -15 550 718 ;  
C -1 ; WX 834 ; N threequarters ; B 45 -19 810 703 ;  
C -1 ; WX 667 ; N Scedilla ; B 49 -225 620 737 ;  
C -1 ; WX 299 ; N lcaron ; B 67 0 311 718 ;  
C -1 ; WX 667 ; N Kcommaaccent ; B 76 -225 663 718 ;  
C -1 ; WX 556 ; N Lacute ; B 76 0 537 929 ;  
C -1 ; WX 1000 ; N trademark ; B 46 306 903 718 ;  
C -1 ; WX 556 ; N edotaccent ; B 40 -15 516 706 ;  
C -1 ; WX 278 ; N Igrave ; B -13 0 188 929 ;  
C -1 ; WX 278 ; N Imacron ; B -17 0 296 879 ;  
C -1 ; WX 556 ; N Lcaron ; B 76 0 537 718 ;  
C -1 ; WX 834 ; N onehalf ; B 43 -19 773 703 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 523 674 ;  
C -1 ; WX 556 ; N ocircumflex ; B 35 -14 521 734 ;  
C -1 ; WX 556 ; N ntilde ; B 65 0 491 722 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 79 -19 644 929 ;  
C -1 ; WX 667 ; N Eacute ; B 86 0 616 929 ;  
C -1 ; WX 556 ; N emacron ; B 40 -15 516 684 ;  
C -1 ; WX 556 ; N gbreve ; B 40 -220 499 731 ;  
C -1 ; WX 834 ; N onequarter ; B 73 -19 756 703 ;  
C -1 ; WX 667 ; N Scaron ; B 49 -19 620 929 ;  
C -1 ; WX 667 ; N Scommaaccent ; B 49 -225 620 737 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 39 -19 739 929 ;  
C -1 ; WX 400 ; N degree ; B 54 411 346 703 ;  
C -1 ; WX 556 ; N ograve ; B 35 -14 521 734 ;  
C -1 ; WX 722 ; N Ccaron ; B 44 -19 681 929 ;  
C -1 ; WX 556 ; N ugrave ; B 68 -15 489 734 ;  
C -1 ; WX 453 ; N radical ; B -4 -80 458 762 ;  
C -1 ; WX 722 ; N Dcaron ; B 81 0 674 929 ;  
C -1 ; WX 333 ; N rcommaaccent ; B 77 -225 332 538 ;  
C -1 ; WX 722 ; N Ntilde ; B 76 0 646 917 ;  
C -1 ; WX 556 ; N otilde ; B 35 -14 521 722 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 684 718 ;  
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 537 718 ;  
C -1 ; WX 667 ; N Atilde ; B 14 0 654 917 ;  
C -1 ; WX 667 ; N Aogonek ; B 14 -225 654 718 ;  
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;  
C -1 ; WX 778 ; N Otilde ; B 39 -19 739 917 ;  
C -1 ; WX 500 ; N zdotaccent ; B 31 0 469 706 ;



C -1 ; WX 667 ; N Ecaron ; B 86 0 616 929 ;  
C -1 ; WX 278 ; N Iogonek ; B -3 -225 211 718 ;  
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 501 718 ;  
C -1 ; WX 584 ; N minus ; B 39 216 545 289 ;  
C -1 ; WX 278 ; N Icircumflex ; B -6 0 285 929 ;  
C -1 ; WX 556 ; N ncaron ; B 65 0 491 734 ;  
C -1 ; WX 278 ; N tcommaaccent ; B 14 -225 257 669 ;  
C -1 ; WX 584 ; N logicalnot ; B 39 108 545 390 ;  
C -1 ; WX 556 ; N odieresis ; B 35 -14 521 706 ;  
C -1 ; WX 556 ; N udieresis ; B 68 -15 489 706 ;  
C -1 ; WX 549 ; N notequal ; B 12 -35 537 551 ;  
C -1 ; WX 556 ; N gcommaaccent ; B 40 -220 499 822 ;  
C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;  
C -1 ; WX 500 ; N zcaron ; B 31 0 469 734 ;  
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 491 538 ;  
C -1 ; WX 333 ; N onesuperior ; B 43 281 222 703 ;  
C -1 ; WX 278 ; N imacron ; B 5 0 272 684 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

KPX A C -30

KPX A Cacute -30

KPX A Ccaron -30

KPX A Ccedilla -30

KPX A G -30

KPX A Gbreve -30

KPX A Gcommaaccent -30

KPX A O -30

KPX A Oacute -30

KPX A Ocircumflex -30

KPX A Odieresis -30

KPX A Ograve -30

KPX A Ohungarumlaut -30

KPX A Omacron -30

KPX A Oslash -30

KPX A Otilde -30

KPX A Q -30

KPX A T -120

KPX A Tcaron -120

KPX A Tcommaaccent -120

KPX A U -50

KPX A Uacute -50

KPX A Ucircumflex -50

KPX A Udieresis -50

KPX A Ugrave -50

KPX A Uhungarumlaut -50

KPX A Umacron -50

KPX A Uogonek -50  
KPX A Uring -50  
KPX A V -70  
KPX A W -50  
KPX A Y -100  
KPX A Yacute -100  
KPX A Ydieresis -100  
KPX A u -30  
KPX A uacute -30  
KPX A ucircumflex -30  
KPX A udieresis -30  
KPX A ugrave -30  
KPX A uhungarumlaut -30  
KPX A umacron -30  
KPX A uogonek -30  
KPX A uring -30  
KPX A v -40  
KPX A w -40  
KPX A y -40  
KPX A yacute -40  
KPX A ydieresis -40  
KPX Aacute C -30  
KPX Aacute Cacute -30  
KPX Aacute Ccaron -30  
KPX Aacute Ccedilla -30  
KPX Aacute G -30  
KPX Aacute Gbreve -30  
KPX Aacute Gcommaaccent -30  
KPX Aacute O -30  
KPX Aacute Oacute -30  
KPX Aacute Ocircumflex -30  
KPX Aacute Odieresis -30  
KPX Aacute Ograve -30  
KPX Aacute Ohungarumlaut -30  
KPX Aacute Omacron -30  
KPX Aacute Oslash -30  
KPX Aacute Otilde -30  
KPX Aacute Q -30  
KPX Aacute T -120  
KPX Aacute Tcaron -120  
KPX Aacute Tcommaaccent -120  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50

KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -70  
KPX Aacute W -50  
KPX Aacute Y -100  
KPX Aacute Yacute -100  
KPX Aacute Ydieresis -100  
KPX Aacute u -30  
KPX Aacute uacute -30  
KPX Aacute ucircumflex -30  
KPX Aacute udieresis -30  
KPX Aacute ugrave -30  
KPX Aacute uhungarumlaut -30  
KPX Aacute umacron -30  
KPX Aacute uogonek -30  
KPX Aacute uring -30  
KPX Aacute v -40  
KPX Aacute w -40  
KPX Aacute y -40  
KPX Aacute yacute -40  
KPX Aacute ydieresis -40  
KPX Abreve C -30  
KPX Abreve Cacute -30  
KPX Abreve Ccaron -30  
KPX Abreve Ccedilla -30  
KPX Abreve G -30  
KPX Abreve Gbreve -30  
KPX Abreve Gcommaaccent -30  
KPX Abreve O -30  
KPX Abreve Oacute -30  
KPX Abreve Ocircumflex -30  
KPX Abreve Odieresis -30  
KPX Abreve Ograve -30  
KPX Abreve Ohungarumlaut -30  
KPX Abreve Omacron -30  
KPX Abreve Oslash -30  
KPX Abreve Otilde -30  
KPX Abreve Q -30  
KPX Abreve T -120  
KPX Abreve Tcaron -120  
KPX Abreve Tcommaaccent -120  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50

KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -70  
KPX Abreve W -50  
KPX Abreve Y -100  
KPX Abreve Yacute -100  
KPX Abreve Ydieresis -100  
KPX Abreve u -30  
KPX Abreve uacute -30  
KPX Abreve ucircumflex -30  
KPX Abreve udieresis -30  
KPX Abreve ugrave -30  
KPX Abreve uhungarumlaut -30  
KPX Abreve umacron -30  
KPX Abreve uogonek -30  
KPX Abreve uring -30  
KPX Abreve v -40  
KPX Abreve w -40  
KPX Abreve y -40  
KPX Abreve yacute -40  
KPX Abreve ydieresis -40  
KPX Acircumflex C -30  
KPX Acircumflex Cacute -30  
KPX Acircumflex Ccaron -30  
KPX Acircumflex Ccedilla -30  
KPX Acircumflex G -30  
KPX Acircumflex Gbreve -30  
KPX Acircumflex Gcommaaccent -30  
KPX Acircumflex O -30  
KPX Acircumflex Oacute -30  
KPX Acircumflex Ocircumflex -30  
KPX Acircumflex Odieresis -30  
KPX Acircumflex Ograve -30  
KPX Acircumflex Ohungarumlaut -30  
KPX Acircumflex Omacron -30  
KPX Acircumflex Oslash -30  
KPX Acircumflex Otilde -30  
KPX Acircumflex Q -30  
KPX Acircumflex T -120  
KPX Acircumflex Tcaron -120  
KPX Acircumflex Tcommaaccent -120  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50

KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50  
KPX Acircumflex V -70  
KPX Acircumflex W -50  
KPX Acircumflex Y -100  
KPX Acircumflex Yacute -100  
KPX Acircumflex Ydieresis -100  
KPX Acircumflex u -30  
KPX Acircumflex uacute -30  
KPX Acircumflex ucircumflex -30  
KPX Acircumflex udieresis -30  
KPX Acircumflex ugrave -30  
KPX Acircumflex uhungarumlaut -30  
KPX Acircumflex umacron -30  
KPX Acircumflex uogonek -30  
KPX Acircumflex uring -30  
KPX Acircumflex v -40  
KPX Acircumflex w -40  
KPX Acircumflex y -40  
KPX Acircumflex yacute -40  
KPX Acircumflex ydieresis -40  
KPX Adieresis C -30  
KPX Adieresis Cacute -30  
KPX Adieresis Ccaron -30  
KPX Adieresis Ccedilla -30  
KPX Adieresis G -30  
KPX Adieresis Gbreve -30  
KPX Adieresis Gcommaaccent -30  
KPX Adieresis O -30  
KPX Adieresis Oacute -30  
KPX Adieresis Ocircumflex -30  
KPX Adieresis Odieresis -30  
KPX Adieresis Ograve -30  
KPX Adieresis Ohungarumlaut -30  
KPX Adieresis Omacron -30  
KPX Adieresis Oslash -30  
KPX Adieresis Otilde -30  
KPX Adieresis Q -30  
KPX Adieresis T -120  
KPX Adieresis Tcaron -120  
KPX Adieresis Tcommaaccent -120  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50

KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50  
KPX Adieresis V -70  
KPX Adieresis W -50  
KPX Adieresis Y -100  
KPX Adieresis Yacute -100  
KPX Adieresis Ydieresis -100  
KPX Adieresis u -30  
KPX Adieresis uacute -30  
KPX Adieresis ucircumflex -30  
KPX Adieresis udieresis -30  
KPX Adieresis ugrave -30  
KPX Adieresis uhungarumlaut -30  
KPX Adieresis umacron -30  
KPX Adieresis uogonek -30  
KPX Adieresis uring -30  
KPX Adieresis v -40  
KPX Adieresis w -40  
KPX Adieresis y -40  
KPX Adieresis yacute -40  
KPX Adieresis ydieresis -40  
KPX Agrave C -30  
KPX Agrave Cacute -30  
KPX Agrave Ccaron -30  
KPX Agrave Ccedilla -30  
KPX Agrave G -30  
KPX Agrave Gbreve -30  
KPX Agrave Gcommaaccent -30  
KPX Agrave O -30  
KPX Agrave Oacute -30  
KPX Agrave Ocircumflex -30  
KPX Agrave Odieresis -30  
KPX Agrave Ograve -30  
KPX Agrave Ohungarumlaut -30  
KPX Agrave Omacron -30  
KPX Agrave Oslash -30  
KPX Agrave Otilde -30  
KPX Agrave Q -30  
KPX Agrave T -120  
KPX Agrave Tcaron -120  
KPX Agrave Tcommaaccent -120  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50  
KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50

KPX Agrave Uogonek -50  
KPX Agrave Uring -50  
KPX Agrave V -70  
KPX Agrave W -50  
KPX Agrave Y -100  
KPX Agrave Yacute -100  
KPX Agrave Ydieresis -100  
KPX Agrave u -30  
KPX Agrave uacute -30  
KPX Agrave ucircumflex -30  
KPX Agrave udieresis -30  
KPX Agrave ugrave -30  
KPX Agrave uhungarumlaut -30  
KPX Agrave umacron -30  
KPX Agrave uogonek -30  
KPX Agrave uring -30  
KPX Agrave v -40  
KPX Agrave w -40  
KPX Agrave y -40  
KPX Agrave yacute -40  
KPX Agrave ydieresis -40  
KPX Amacron C -30  
KPX Amacron Cacute -30  
KPX Amacron Ccaron -30  
KPX Amacron Ccedilla -30  
KPX Amacron G -30  
KPX Amacron Gbreve -30  
KPX Amacron Gcommaaccent -30  
KPX Amacron O -30  
KPX Amacron Oacute -30  
KPX Amacron Ocircumflex -30  
KPX Amacron Odieresis -30  
KPX Amacron Ograve -30  
KPX Amacron Ohungarumlaut -30  
KPX Amacron Omacron -30  
KPX Amacron Oslash -30  
KPX Amacron Otilde -30  
KPX Amacron Q -30  
KPX Amacron T -120  
KPX Amacron Tcaron -120  
KPX Amacron Tcommaaccent -120  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50  
KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50

KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -70  
KPX Amacron W -50  
KPX Amacron Y -100  
KPX Amacron Yacute -100  
KPX Amacron Ydieresis -100  
KPX Amacron u -30  
KPX Amacron uacute -30  
KPX Amacron ucircumflex -30  
KPX Amacron udieresis -30  
KPX Amacron ugrave -30  
KPX Amacron uhungarumlaut -30  
KPX Amacron umacron -30  
KPX Amacron uogonek -30  
KPX Amacron uring -30  
KPX Amacron v -40  
KPX Amacron w -40  
KPX Amacron y -40  
KPX Amacron yacute -40  
KPX Amacron ydieresis -40  
KPX Aogonek C -30  
KPX Aogonek Cacute -30  
KPX Aogonek Ccaron -30  
KPX Aogonek Ccedilla -30  
KPX Aogonek G -30  
KPX Aogonek Gbreve -30  
KPX Aogonek Gcommaaccent -30  
KPX Aogonek O -30  
KPX Aogonek Oacute -30  
KPX Aogonek Ocircumflex -30  
KPX Aogonek Odieresis -30  
KPX Aogonek Ograve -30  
KPX Aogonek Ohungarumlaut -30  
KPX Aogonek Omacron -30  
KPX Aogonek Oslash -30  
KPX Aogonek Otilde -30  
KPX Aogonek Q -30  
KPX Aogonek T -120  
KPX Aogonek Tcaron -120  
KPX Aogonek Tcommaaccent -120  
KPX Aogonek U -50  
KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50  
KPX Aogonek Umacron -50



KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -70  
KPX Aogonek W -50  
KPX Aogonek Y -100  
KPX Aogonek Yacute -100  
KPX Aogonek Ydieresis -100  
KPX Aogonek u -30  
KPX Aogonek uacute -30  
KPX Aogonek ucircumflex -30  
KPX Aogonek udieresis -30  
KPX Aogonek ugrave -30  
KPX Aogonek uhungarumlaut -30  
KPX Aogonek umacron -30  
KPX Aogonek uogonek -30  
KPX Aogonek uring -30  
KPX Aogonek v -40  
KPX Aogonek w -40  
KPX Aogonek y -40  
KPX Aogonek yacute -40  
KPX Aogonek ydieresis -40  
KPX Aring C -30  
KPX Aring Cacute -30  
KPX Aring Ccaron -30  
KPX Aring Ccedilla -30  
KPX Aring G -30  
KPX Aring Gbreve -30  
KPX Aring Gcommaaccent -30  
KPX Aring O -30  
KPX Aring Oacute -30  
KPX Aring Ocircumflex -30  
KPX Aring Odieresis -30  
KPX Aring Ograve -30  
KPX Aring Ohungarumlaut -30  
KPX Aring Omacron -30  
KPX Aring Oslash -30  
KPX Aring Otilde -30  
KPX Aring Q -30  
KPX Aring T -120  
KPX Aring Tcaron -120  
KPX Aring Tcommaaccent -120  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50  
KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50

KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -70  
KPX Aring W -50  
KPX Aring Y -100  
KPX Aring Yacute -100  
KPX Aring Ydieresis -100  
KPX Aring u -30  
KPX Aring uacute -30  
KPX Aring ucircumflex -30  
KPX Aring udieresis -30  
KPX Aring ugrave -30  
KPX Aring uhungarumlaut -30  
KPX Aring umacron -30  
KPX Aring uogonek -30  
KPX Aring uring -30  
KPX Aring v -40  
KPX Aring w -40  
KPX Aring y -40  
KPX Aring yacute -40  
KPX Aring ydieresis -40  
KPX Atilde C -30  
KPX Atilde Cacute -30  
KPX Atilde Ccaron -30  
KPX Atilde Ccedilla -30  
KPX Atilde G -30  
KPX Atilde Gbreve -30  
KPX Atilde Gcommaaccent -30  
KPX Atilde O -30  
KPX Atilde Oacute -30  
KPX Atilde Ocircumflex -30  
KPX Atilde Odieresis -30  
KPX Atilde Ograve -30  
KPX Atilde Ohungarumlaut -30  
KPX Atilde Omacron -30  
KPX Atilde Oslash -30  
KPX Atilde Otilde -30  
KPX Atilde Q -30  
KPX Atilde T -120  
KPX Atilde Tcaron -120  
KPX Atilde Tcommaaccent -120  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50  
KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50

KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -70  
KPX Atilde W -50  
KPX Atilde Y -100  
KPX Atilde Yacute -100  
KPX Atilde Ydieresis -100  
KPX Atilde u -30  
KPX Atilde uacute -30  
KPX Atilde ucircumflex -30  
KPX Atilde udieresis -30  
KPX Atilde ugrave -30  
KPX Atilde uhungarumlaut -30  
KPX Atilde umacron -30  
KPX Atilde uogonek -30  
KPX Atilde uring -30  
KPX Atilde v -40  
KPX Atilde w -40  
KPX Atilde y -40  
KPX Atilde yacute -40  
KPX Atilde ydieresis -40  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10  
KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX B comma -20  
KPX B period -20  
KPX C comma -30  
KPX C period -30  
KPX Cacute comma -30  
KPX Cacute period -30  
KPX Ccaron comma -30  
KPX Ccaron period -30  
KPX Ccedilla comma -30  
KPX Ccedilla period -30  
KPX D A -40  
KPX D Aacute -40  
KPX D Abreve -40  
KPX D Acircumflex -40  
KPX D Adieresis -40  
KPX D Agrave -40  
KPX D Amacron -40  
KPX D Aogonek -40

KPX D Aring -40  
KPX D Atilde -40  
KPX D V -70  
KPX D W -40  
KPX D Y -90  
KPX D Yacute -90  
KPX D Ydieresis -90  
KPX D comma -70  
KPX D period -70  
KPX Dcaron A -40  
KPX Dcaron Aacute -40  
KPX Dcaron Abreve -40  
KPX Dcaron Acircumflex -40  
KPX Dcaron Adieresis -40  
KPX Dcaron Agrave -40  
KPX Dcaron Amacron -40  
KPX Dcaron Aogonek -40  
KPX Dcaron Aring -40  
KPX Dcaron Atilde -40  
KPX Dcaron V -70  
KPX Dcaron W -40  
KPX Dcaron Y -90  
KPX Dcaron Yacute -90  
KPX Dcaron Ydieresis -90  
KPX Dcaron comma -70  
KPX Dcaron period -70  
KPX Dcroat A -40  
KPX Dcroat Aacute -40  
KPX Dcroat Abreve -40  
KPX Dcroat Acircumflex -40  
KPX Dcroat Adieresis -40  
KPX Dcroat Agrave -40  
KPX Dcroat Amacron -40  
KPX Dcroat Aogonek -40  
KPX Dcroat Aring -40  
KPX Dcroat Atilde -40  
KPX Dcroat V -70  
KPX Dcroat W -40  
KPX Dcroat Y -90  
KPX Dcroat Yacute -90  
KPX Dcroat Ydieresis -90  
KPX Dcroat comma -70  
KPX Dcroat period -70  
KPX F A -80  
KPX F Aacute -80  
KPX F Abreve -80  
KPX F Acircumflex -80  
KPX F Adieresis -80

KPX F Agrave -80  
KPX F Amacron -80  
KPX F Aogonek -80  
KPX F Aring -80  
KPX F Atilde -80  
KPX F a -50  
KPX F aacute -50  
KPX F abreve -50  
KPX F acircumflex -50  
KPX F adieresis -50  
KPX F agrave -50  
KPX F amacron -50  
KPX F aogonek -50  
KPX F aring -50  
KPX F atilde -50  
KPX F comma -150  
KPX F e -30  
KPX F eacute -30  
KPX F ecaron -30  
KPX F ecircumflex -30  
KPX F edieresis -30  
KPX F edotaccent -30  
KPX F egrave -30  
KPX F emacron -30  
KPX F eogonek -30  
KPX F o -30  
KPX F oacute -30  
KPX F ocircumflex -30  
KPX F odieresis -30  
KPX F ograve -30  
KPX F ohungarumlaut -30  
KPX F omacron -30  
KPX F oslash -30  
KPX F otilde -30  
KPX F period -150  
KPX F r -45  
KPX F racute -45  
KPX F rcaron -45  
KPX F rcommaaccent -45  
KPX J A -20  
KPX J Aacute -20  
KPX J Abreve -20  
KPX J Acircumflex -20  
KPX J Adieresis -20  
KPX J Agrave -20  
KPX J Amacron -20  
KPX J Aogonek -20  
KPX J Aring -20

KPX J Atilde -20  
KPX J a -20  
KPX J aacute -20  
KPX J abreve -20  
KPX J acircumflex -20  
KPX J adieresis -20  
KPX J agrave -20  
KPX J amacron -20  
KPX J aogonek -20  
KPX J aring -20  
KPX J atilde -20  
KPX J comma -30  
KPX J period -30  
KPX J u -20  
KPX J uacute -20  
KPX J ucircumflex -20  
KPX J udieresis -20  
KPX J ugrave -20  
KPX J uhungarumlaut -20  
KPX J umacron -20  
KPX J uogonek -20  
KPX J uring -20  
KPX K O -50  
KPX K Oacute -50  
KPX K Ocircumflex -50  
KPX K Odieresis -50  
KPX K Ograve -50  
KPX K Ohungarumlaut -50  
KPX K Omacron -50  
KPX K Oslash -50  
KPX K Otilde -50  
KPX K e -40  
KPX K eacute -40  
KPX K ecaron -40  
KPX K ecircumflex -40  
KPX K edieresis -40  
KPX K edotaccent -40  
KPX K egrave -40  
KPX K emacron -40  
KPX K eogonek -40  
KPX K o -40  
KPX K oacute -40  
KPX K ocircumflex -40  
KPX K odieresis -40  
KPX K ograve -40  
KPX K ohungarumlaut -40  
KPX K omacron -40  
KPX K oslash -40

KPX K otilde -40  
KPX K u -30  
KPX K uacute -30  
KPX K ucircumflex -30  
KPX K udieresis -30  
KPX K ugrave -30  
KPX K uhungarumlaut -30  
KPX K umacron -30  
KPX K uogonek -30  
KPX K uring -30  
KPX K y -50  
KPX K yacute -50  
KPX K ydieresis -50  
KPX Kcommaaccent O -50  
KPX Kcommaaccent Oacute -50  
KPX Kcommaaccent Ocircumflex -50  
KPX Kcommaaccent Odieresis -50  
KPX Kcommaaccent Ograve -50  
KPX Kcommaaccent Ohungarumlaut -50  
KPX Kcommaaccent Omacron -50  
KPX Kcommaaccent Oslash -50  
KPX Kcommaaccent Otilde -50  
KPX Kcommaaccent e -40  
KPX Kcommaaccent eacute -40  
KPX Kcommaaccent ecaron -40  
KPX Kcommaaccent ecircumflex -40  
KPX Kcommaaccent edieresis -40  
KPX Kcommaaccent edotaccent -40  
KPX Kcommaaccent egrave -40  
KPX Kcommaaccent emacron -40  
KPX Kcommaaccent eogonek -40  
KPX Kcommaaccent o -40  
KPX Kcommaaccent oacute -40  
KPX Kcommaaccent ocircumflex -40  
KPX Kcommaaccent odieresis -40  
KPX Kcommaaccent ograve -40  
KPX Kcommaaccent ohungarumlaut -40  
KPX Kcommaaccent omacron -40  
KPX Kcommaaccent oslash -40  
KPX Kcommaaccent otilde -40  
KPX Kcommaaccent u -30  
KPX Kcommaaccent uacute -30  
KPX Kcommaaccent ucircumflex -30  
KPX Kcommaaccent udieresis -30  
KPX Kcommaaccent ugrave -30  
KPX Kcommaaccent uhungarumlaut -30  
KPX Kcommaaccent umacron -30  
KPX Kcommaaccent uogonek -30

KPX Kcommaaccent uring -30  
KPX Kcommaaccent y -50  
KPX Kcommaaccent yacute -50  
KPX Kcommaaccent ydieresis -50  
KPX L T -110  
KPX L Tcaron -110  
KPX L Tcommaaccent -110  
KPX L V -110  
KPX L W -70  
KPX L Y -140  
KPX L Yacute -140  
KPX L Ydieresis -140  
KPX L quotedblright -140  
KPX L quoteright -160  
KPX L y -30  
KPX L yacute -30  
KPX L ydieresis -30  
KPX Lacute T -110  
KPX Lacute Tcaron -110  
KPX Lacute Tcommaaccent -110  
KPX Lacute V -110  
KPX Lacute W -70  
KPX Lacute Y -140  
KPX Lacute Yacute -140  
KPX Lacute Ydieresis -140  
KPX Lacute quotedblright -140  
KPX Lacute quoteright -160  
KPX Lacute y -30  
KPX Lacute yacute -30  
KPX Lacute ydieresis -30  
KPX Lcaron T -110  
KPX Lcaron Tcaron -110  
KPX Lcaron Tcommaaccent -110  
KPX Lcaron V -110  
KPX Lcaron W -70  
KPX Lcaron Y -140  
KPX Lcaron Yacute -140  
KPX Lcaron Ydieresis -140  
KPX Lcaron quotedblright -140  
KPX Lcaron quoteright -160  
KPX Lcaron y -30  
KPX Lcaron yacute -30  
KPX Lcaron ydieresis -30  
KPX Lcommaaccent T -110  
KPX Lcommaaccent Tcaron -110  
KPX Lcommaaccent Tcommaaccent -110  
KPX Lcommaaccent V -110  
KPX Lcommaaccent W -70



KPX Lcommaaccent Y -140  
KPX Lcommaaccent Yacute -140  
KPX Lcommaaccent Ydieresis -140  
KPX Lcommaaccent quotedblright -140  
KPX Lcommaaccent quoteright -160  
KPX Lcommaaccent y -30  
KPX Lcommaaccent yacute -30  
KPX Lcommaaccent ydieresis -30  
KPX Lslash T -110  
KPX Lslash Tcaron -110  
KPX Lslash Tcommaaccent -110  
KPX Lslash V -110  
KPX Lslash W -70  
KPX Lslash Y -140  
KPX Lslash Yacute -140  
KPX Lslash Ydieresis -140  
KPX Lslash quotedblright -140  
KPX Lslash quoteright -160  
KPX Lslash y -30  
KPX Lslash yacute -30  
KPX Lslash ydieresis -30  
KPX O A -20  
KPX O Aacute -20  
KPX O Abreve -20  
KPX O Acircumflex -20  
KPX O Adieresis -20  
KPX O Agrave -20  
KPX O Amacron -20  
KPX O Aogonek -20  
KPX O Aring -20  
KPX O Atilde -20  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -30  
KPX O X -60  
KPX O Y -70  
KPX O Yacute -70  
KPX O Ydieresis -70  
KPX O comma -40  
KPX O period -40  
KPX Oacute A -20  
KPX Oacute Aacute -20  
KPX Oacute Abreve -20  
KPX Oacute Acircumflex -20  
KPX Oacute Adieresis -20  
KPX Oacute Agrave -20

KPX Oacute Amacron -20  
KPX Oacute Aogonek -20  
KPX Oacute Aring -20  
KPX Oacute Atilde -20  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -30  
KPX Oacute X -60  
KPX Oacute Y -70  
KPX Oacute Yacute -70  
KPX Oacute Ydieresis -70  
KPX Oacute comma -40  
KPX Oacute period -40  
KPX Ocircumflex A -20  
KPX Ocircumflex Aacute -20  
KPX Ocircumflex Abreve -20  
KPX Ocircumflex Acircumflex -20  
KPX Ocircumflex Adieresis -20  
KPX Ocircumflex Agrave -20  
KPX Ocircumflex Amacron -20  
KPX Ocircumflex Aogonek -20  
KPX Ocircumflex Aring -20  
KPX Ocircumflex Atilde -20  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -30  
KPX Ocircumflex X -60  
KPX Ocircumflex Y -70  
KPX Ocircumflex Yacute -70  
KPX Ocircumflex Ydieresis -70  
KPX Ocircumflex comma -40  
KPX Ocircumflex period -40  
KPX Odieresis A -20  
KPX Odieresis Aacute -20  
KPX Odieresis Abreve -20  
KPX Odieresis Acircumflex -20  
KPX Odieresis Adieresis -20  
KPX Odieresis Agrave -20  
KPX Odieresis Amacron -20  
KPX Odieresis Aogonek -20  
KPX Odieresis Aring -20  
KPX Odieresis Atilde -20  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40

KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -30  
KPX Odieresis X -60  
KPX Odieresis Y -70  
KPX Odieresis Yacute -70  
KPX Odieresis Ydieresis -70  
KPX Odieresis comma -40  
KPX Odieresis period -40  
KPX Ograve A -20  
KPX Ograve Aacute -20  
KPX Ograve Abreve -20  
KPX Ograve Acircumflex -20  
KPX Ograve Adieresis -20  
KPX Ograve Agrave -20  
KPX Ograve Amacron -20  
KPX Ograve Aogonek -20  
KPX Ograve Aring -20  
KPX Ograve Atilde -20  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -30  
KPX Ograve X -60  
KPX Ograve Y -70  
KPX Ograve Yacute -70  
KPX Ograve Ydieresis -70  
KPX Ograve comma -40  
KPX Ograve period -40  
KPX Ohungarumlaut A -20  
KPX Ohungarumlaut Aacute -20  
KPX Ohungarumlaut Abreve -20  
KPX Ohungarumlaut Acircumflex -20  
KPX Ohungarumlaut Adieresis -20  
KPX Ohungarumlaut Agrave -20  
KPX Ohungarumlaut Amacron -20  
KPX Ohungarumlaut Aogonek -20  
KPX Ohungarumlaut Aring -20  
KPX Ohungarumlaut Atilde -20  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -30  
KPX Ohungarumlaut X -60  
KPX Ohungarumlaut Y -70  
KPX Ohungarumlaut Yacute -70

KPX Ohungarumlaut Ydieresis -70  
KPX Ohungarumlaut comma -40  
KPX Ohungarumlaut period -40  
KPX Omacron A -20  
KPX Omacron Aacute -20  
KPX Omacron Abreve -20  
KPX Omacron Acircumflex -20  
KPX Omacron Adieresis -20  
KPX Omacron Agrave -20  
KPX Omacron Amacron -20  
KPX Omacron Aogonek -20  
KPX Omacron Aring -20  
KPX Omacron Atilde -20  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -30  
KPX Omacron X -60  
KPX Omacron Y -70  
KPX Omacron Yacute -70  
KPX Omacron Ydieresis -70  
KPX Omacron comma -40  
KPX Omacron period -40  
KPX Oslash A -20  
KPX Oslash Aacute -20  
KPX Oslash Abreve -20  
KPX Oslash Acircumflex -20  
KPX Oslash Adieresis -20  
KPX Oslash Agrave -20  
KPX Oslash Amacron -20  
KPX Oslash Aogonek -20  
KPX Oslash Aring -20  
KPX Oslash Atilde -20  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -30  
KPX Oslash X -60  
KPX Oslash Y -70  
KPX Oslash Yacute -70  
KPX Oslash Ydieresis -70  
KPX Oslash comma -40  
KPX Oslash period -40  
KPX Otilde A -20  
KPX Otilde Aacute -20  
KPX Otilde Abreve -20

KPX Otilde Acircumflex -20  
KPX Otilde Adieresis -20  
KPX Otilde Agrave -20  
KPX Otilde Amacron -20  
KPX Otilde Aogonek -20  
KPX Otilde Aring -20  
KPX Otilde Atilde -20  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -30  
KPX Otilde X -60  
KPX Otilde Y -70  
KPX Otilde Yacute -70  
KPX Otilde Ydieresis -70  
KPX Otilde comma -40  
KPX Otilde period -40  
KPX P A -120  
KPX P Aacute -120  
KPX P Abreve -120  
KPX P Acircumflex -120  
KPX P Adieresis -120  
KPX P Agrave -120  
KPX P Amacron -120  
KPX P Aogonek -120  
KPX P Aring -120  
KPX P Atilde -120  
KPX P a -40  
KPX P aacute -40  
KPX P abreve -40  
KPX P acircumflex -40  
KPX P adieresis -40  
KPX P agrave -40  
KPX P amacron -40  
KPX P aogonek -40  
KPX P aring -40  
KPX P atilde -40  
KPX P comma -180  
KPX P e -50  
KPX P eacute -50  
KPX P ecaron -50  
KPX P ecircumflex -50  
KPX P edieresis -50  
KPX P edotaccent -50  
KPX P egrave -50  
KPX P emacron -50  
KPX P eogonek -50

KPX P o -50  
KPX P oacute -50  
KPX P ocircumflex -50  
KPX P odieresis -50  
KPX P ograve -50  
KPX P ohungarumlaut -50  
KPX P omacron -50  
KPX P oslash -50  
KPX P otilde -50  
KPX P period -180  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX R O -20  
KPX R Oacute -20  
KPX R Ocircumflex -20  
KPX R Odieresis -20  
KPX R Ograve -20  
KPX R Ohungarumlaut -20  
KPX R Omacron -20  
KPX R Oslash -20  
KPX R Otilde -20  
KPX R T -30  
KPX R Tcaron -30  
KPX R Tcommaaccent -30  
KPX R U -40  
KPX R Uacute -40  
KPX R Ucircumflex -40  
KPX R Udieresis -40  
KPX R Ugrave -40  
KPX R Uhungarumlaut -40  
KPX R Umacron -40  
KPX R Uogonek -40  
KPX R Uring -40  
KPX R V -50  
KPX R W -30  
KPX R Y -50  
KPX R Yacute -50  
KPX R Ydieresis -50  
KPX Racute O -20  
KPX Racute Oacute -20  
KPX Racute Ocircumflex -20

KPX Racute Odieresis -20  
KPX Racute Ograve -20  
KPX Racute Ohungarumlaut -20  
KPX Racute Omacron -20  
KPX Racute Oslash -20  
KPX Racute Otilde -20  
KPX Racute T -30  
KPX Racute Tcaron -30  
KPX Racute Tcommaaccent -30  
KPX Racute U -40  
KPX Racute Uacute -40  
KPX Racute Ucircumflex -40  
KPX Racute Udieresis -40  
KPX Racute Ugrave -40  
KPX Racute Uhungarumlaut -40  
KPX Racute Umacron -40  
KPX Racute Uogonek -40  
KPX Racute Uring -40  
KPX Racute V -50  
KPX Racute W -30  
KPX Racute Y -50  
KPX Racute Yacute -50  
KPX Racute Ydieresis -50  
KPX Rcaron O -20  
KPX Rcaron Oacute -20  
KPX Rcaron Ocircumflex -20  
KPX Rcaron Odieresis -20  
KPX Rcaron Ograve -20  
KPX Rcaron Ohungarumlaut -20  
KPX Rcaron Omacron -20  
KPX Rcaron Oslash -20  
KPX Rcaron Otilde -20  
KPX Rcaron T -30  
KPX Rcaron Tcaron -30  
KPX Rcaron Tcommaaccent -30  
KPX Rcaron U -40  
KPX Rcaron Uacute -40  
KPX Rcaron Ucircumflex -40  
KPX Rcaron Udieresis -40  
KPX Rcaron Ugrave -40  
KPX Rcaron Uhungarumlaut -40  
KPX Rcaron Umacron -40  
KPX Rcaron Uogonek -40  
KPX Rcaron Uring -40  
KPX Rcaron V -50  
KPX Rcaron W -30  
KPX Rcaron Y -50  
KPX Rcaron Yacute -50

KPX Rcaron Ydieresis -50  
KPX Rcommaaccent O -20  
KPX Rcommaaccent Oacute -20  
KPX Rcommaaccent Ocircumflex -20  
KPX Rcommaaccent Odieresis -20  
KPX Rcommaaccent Ograve -20  
KPX Rcommaaccent Ohungarumlaut -20  
KPX Rcommaaccent Omacron -20  
KPX Rcommaaccent Oslash -20  
KPX Rcommaaccent Otilde -20  
KPX Rcommaaccent T -30  
KPX Rcommaaccent Tcaron -30  
KPX Rcommaaccent Tcommaaccent -30  
KPX Rcommaaccent U -40  
KPX Rcommaaccent Uacute -40  
KPX Rcommaaccent Ucircumflex -40  
KPX Rcommaaccent Udieresis -40  
KPX Rcommaaccent Ugrave -40  
KPX Rcommaaccent Uhungarumlaut -40  
KPX Rcommaaccent Umacron -40  
KPX Rcommaaccent Uogonek -40  
KPX Rcommaaccent Uring -40  
KPX Rcommaaccent V -50  
KPX Rcommaaccent W -30  
KPX Rcommaaccent Y -50  
KPX Rcommaaccent Yacute -50  
KPX Rcommaaccent Ydieresis -50  
KPX S comma -20  
KPX S period -20  
KPX Sacute comma -20  
KPX Sacute period -20  
KPX Scaron comma -20  
KPX Scaron period -20  
KPX Scedilla comma -20  
KPX Scedilla period -20  
KPX Scommaaccent comma -20  
KPX Scommaaccent period -20  
KPX T A -120  
KPX T Aacute -120  
KPX T Abreve -120  
KPX T Acircumflex -120  
KPX T Adieresis -120  
KPX T Agrave -120  
KPX T Amacron -120  
KPX T Aogonek -120  
KPX T Aring -120  
KPX T Atilde -120  
KPX T O -40



KPX T Oacute -40  
KPX T Ocircumflex -40  
KPX T Odieresis -40  
KPX T Ograve -40  
KPX T Ohungarumlaut -40  
KPX T Omacron -40  
KPX T Oslash -40  
KPX T Otilde -40  
KPX T a -120  
KPX T aacute -120  
KPX T abreve -60  
KPX T acircumflex -120  
KPX T adieresis -120  
KPX T agrave -120  
KPX T amacron -60  
KPX T aogonek -120  
KPX T aring -120  
KPX T atilde -60  
KPX T colon -20  
KPX T comma -120  
KPX T e -120  
KPX T eacute -120  
KPX T ecaron -120  
KPX T ecircumflex -120  
KPX T edieresis -120  
KPX T edotaccent -120  
KPX T egrave -60  
KPX T emacron -60  
KPX T eogonek -120  
KPX T hyphen -140  
KPX T o -120  
KPX T oacute -120  
KPX T ocircumflex -120  
KPX T odieresis -120  
KPX T ograve -120  
KPX T ohungarumlaut -120  
KPX T omacron -60  
KPX T oslash -120  
KPX T otilde -60  
KPX T period -120  
KPX T r -120  
KPX T racute -120  
KPX T rcaron -120  
KPX T rcommaaccent -120  
KPX T semicolon -20  
KPX T u -120  
KPX T uacute -120  
KPX T ucircumflex -120

KPX T udieresis -120  
KPX T ugrave -120  
KPX T uhungarumlaut -120  
KPX T umacron -60  
KPX T uogonek -120  
KPX T uring -120  
KPX T w -120  
KPX T y -120  
KPX T yacute -120  
KPX T ydieresis -60  
KPX Tcaron A -120  
KPX Tcaron Aacute -120  
KPX Tcaron Abreve -120  
KPX Tcaron Acircumflex -120  
KPX Tcaron Adieresis -120  
KPX Tcaron Agrave -120  
KPX Tcaron Amacron -120  
KPX Tcaron Aogonek -120  
KPX Tcaron Aring -120  
KPX Tcaron Atilde -120  
KPX Tcaron O -40  
KPX Tcaron Oacute -40  
KPX Tcaron Ocircumflex -40  
KPX Tcaron Odieresis -40  
KPX Tcaron Ograve -40  
KPX Tcaron Ohungarumlaut -40  
KPX Tcaron Omacron -40  
KPX Tcaron Oslash -40  
KPX Tcaron Otilde -40  
KPX Tcaron a -120  
KPX Tcaron aacute -120  
KPX Tcaron abreve -60  
KPX Tcaron acircumflex -120  
KPX Tcaron adieresis -120  
KPX Tcaron agrave -120  
KPX Tcaron amacron -60  
KPX Tcaron aogonek -120  
KPX Tcaron aring -120  
KPX Tcaron atilde -60  
KPX Tcaron colon -20  
KPX Tcaron comma -120  
KPX Tcaron e -120  
KPX Tcaron eacute -120  
KPX Tcaron ecaron -120  
KPX Tcaron ecircumflex -120  
KPX Tcaron edieresis -120  
KPX Tcaron edotaccent -120  
KPX Tcaron egrave -60

KPX Tcaron emacron -60  
KPX Tcaron eogonek -120  
KPX Tcaron hyphen -140  
KPX Tcaron o -120  
KPX Tcaron oacute -120  
KPX Tcaron ocircumflex -120  
KPX Tcaron odieresis -120  
KPX Tcaron ograve -120  
KPX Tcaron ohungarumlaut -120  
KPX Tcaron omacron -60  
KPX Tcaron oslash -120  
KPX Tcaron otilde -60  
KPX Tcaron period -120  
KPX Tcaron r -120  
KPX Tcaron racute -120  
KPX Tcaron rcaron -120  
KPX Tcaron rcommaaccent -120  
KPX Tcaron semicolon -20  
KPX Tcaron u -120  
KPX Tcaron uacute -120  
KPX Tcaron ucircumflex -120  
KPX Tcaron udieresis -120  
KPX Tcaron ugrave -120  
KPX Tcaron uhungarumlaut -120  
KPX Tcaron umacron -60  
KPX Tcaron uogonek -120  
KPX Tcaron uring -120  
KPX Tcaron w -120  
KPX Tcaron y -120  
KPX Tcaron yacute -120  
KPX Tcaron ydieresis -60  
KPX Tcommaaccent A -120  
KPX Tcommaaccent Aacute -120  
KPX Tcommaaccent Abreve -120  
KPX Tcommaaccent Acircumflex -120  
KPX Tcommaaccent Adieresis -120  
KPX Tcommaaccent Agrave -120  
KPX Tcommaaccent Amacron -120  
KPX Tcommaaccent Aogonek -120  
KPX Tcommaaccent Aring -120  
KPX Tcommaaccent Atilde -120  
KPX Tcommaaccent O -40  
KPX Tcommaaccent Oacute -40  
KPX Tcommaaccent Ocircumflex -40  
KPX Tcommaaccent Odieresis -40  
KPX Tcommaaccent Ograve -40  
KPX Tcommaaccent Ohungarumlaut -40  
KPX Tcommaaccent Omacron -40

KPX Tcommaaccent Oslash -40  
KPX Tcommaaccent Otilde -40  
KPX Tcommaaccent a -120  
KPX Tcommaaccent aacute -120  
KPX Tcommaaccent abreve -60  
KPX Tcommaaccent acircumflex -120  
KPX Tcommaaccent adieresis -120  
KPX Tcommaaccent agrave -120  
KPX Tcommaaccent amacron -60  
KPX Tcommaaccent aogonek -120  
KPX Tcommaaccent aring -120  
KPX Tcommaaccent atilde -60  
KPX Tcommaaccent colon -20  
KPX Tcommaaccent comma -120  
KPX Tcommaaccent e -120  
KPX Tcommaaccent eacute -120  
KPX Tcommaaccent ecaron -120  
KPX Tcommaaccent ecircumflex -120  
KPX Tcommaaccent edieresis -120  
KPX Tcommaaccent edotaccent -120  
KPX Tcommaaccent egrave -60  
KPX Tcommaaccent emacron -60  
KPX Tcommaaccent eogonek -120  
KPX Tcommaaccent hyphen -140  
KPX Tcommaaccent o -120  
KPX Tcommaaccent oacute -120  
KPX Tcommaaccent ocircumflex -120  
KPX Tcommaaccent odieresis -120  
KPX Tcommaaccent ograve -120  
KPX Tcommaaccent ohungarumlaut -120  
KPX Tcommaaccent omacron -60  
KPX Tcommaaccent oslash -120  
KPX Tcommaaccent otilde -60  
KPX Tcommaaccent period -120  
KPX Tcommaaccent r -120  
KPX Tcommaaccent racute -120  
KPX Tcommaaccent rcaron -120  
KPX Tcommaaccent rcommaaccent -120  
KPX Tcommaaccent semicolon -20  
KPX Tcommaaccent u -120  
KPX Tcommaaccent uacute -120  
KPX Tcommaaccent ucircumflex -120  
KPX Tcommaaccent udieresis -120  
KPX Tcommaaccent ugrave -120  
KPX Tcommaaccent uhungarumlaut -120  
KPX Tcommaaccent umacron -60  
KPX Tcommaaccent uogonek -120  
KPX Tcommaaccent uring -120

KPX Tcommaaccent w -120  
KPX Tcommaaccent y -120  
KPX Tcommaaccent yacute -120  
KPX Tcommaaccent ydieresis -60  
KPX U A -40  
KPX U Aacute -40  
KPX U Abreve -40  
KPX U Acircumflex -40  
KPX U Adieresis -40  
KPX U Agrave -40  
KPX U Amacron -40  
KPX U Aogonek -40  
KPX U Aring -40  
KPX U Atilde -40  
KPX U comma -40  
KPX U period -40  
KPX Uacute A -40  
KPX Uacute Aacute -40  
KPX Uacute Abreve -40  
KPX Uacute Acircumflex -40  
KPX Uacute Adieresis -40  
KPX Uacute Agrave -40  
KPX Uacute Amacron -40  
KPX Uacute Aogonek -40  
KPX Uacute Aring -40  
KPX Uacute Atilde -40  
KPX Uacute comma -40  
KPX Uacute period -40  
KPX Ucircumflex A -40  
KPX Ucircumflex Aacute -40  
KPX Ucircumflex Abreve -40  
KPX Ucircumflex Acircumflex -40  
KPX Ucircumflex Adieresis -40  
KPX Ucircumflex Agrave -40  
KPX Ucircumflex Amacron -40  
KPX Ucircumflex Aogonek -40  
KPX Ucircumflex Aring -40  
KPX Ucircumflex Atilde -40  
KPX Ucircumflex comma -40  
KPX Ucircumflex period -40  
KPX Udieresis A -40  
KPX Udieresis Aacute -40  
KPX Udieresis Abreve -40  
KPX Udieresis Acircumflex -40  
KPX Udieresis Adieresis -40  
KPX Udieresis Agrave -40  
KPX Udieresis Amacron -40  
KPX Udieresis Aogonek -40

KPX Udieresis Aring -40  
KPX Udieresis Atilde -40  
KPX Udieresis comma -40  
KPX Udieresis period -40  
KPX Ugrave A -40  
KPX Ugrave Aacute -40  
KPX Ugrave Abreve -40  
KPX Ugrave Acircumflex -40  
KPX Ugrave Adieresis -40  
KPX Ugrave Agrave -40  
KPX Ugrave Amacron -40  
KPX Ugrave Aogonek -40  
KPX Ugrave Aring -40  
KPX Ugrave Atilde -40  
KPX Ugrave comma -40  
KPX Ugrave period -40  
KPX Uhungarumlaut A -40  
KPX Uhungarumlaut Aacute -40  
KPX Uhungarumlaut Abreve -40  
KPX Uhungarumlaut Acircumflex -40  
KPX Uhungarumlaut Adieresis -40  
KPX Uhungarumlaut Agrave -40  
KPX Uhungarumlaut Amacron -40  
KPX Uhungarumlaut Aogonek -40  
KPX Uhungarumlaut Aring -40  
KPX Uhungarumlaut Atilde -40  
KPX Uhungarumlaut comma -40  
KPX Uhungarumlaut period -40  
KPX Umacron A -40  
KPX Umacron Aacute -40  
KPX Umacron Abreve -40  
KPX Umacron Acircumflex -40  
KPX Umacron Adieresis -40  
KPX Umacron Agrave -40  
KPX Umacron Amacron -40  
KPX Umacron Aogonek -40  
KPX Umacron Aring -40  
KPX Umacron Atilde -40  
KPX Umacron comma -40  
KPX Umacron period -40  
KPX Uogonek A -40  
KPX Uogonek Aacute -40  
KPX Uogonek Abreve -40  
KPX Uogonek Acircumflex -40  
KPX Uogonek Adieresis -40  
KPX Uogonek Agrave -40  
KPX Uogonek Amacron -40  
KPX Uogonek Aogonek -40

KPX Uogonek Aring -40  
KPX Uogonek Atilde -40  
KPX Uogonek comma -40  
KPX Uogonek period -40  
KPX Uring A -40  
KPX Uring Aacute -40  
KPX Uring Abreve -40  
KPX Uring Acircumflex -40  
KPX Uring Adieresis -40  
KPX Uring Agrave -40  
KPX Uring Amacron -40  
KPX Uring Aogonek -40  
KPX Uring Aring -40  
KPX Uring Atilde -40  
KPX Uring comma -40  
KPX Uring period -40  
KPX V A -80  
KPX V Aacute -80  
KPX V Abreve -80  
KPX V Acircumflex -80  
KPX V Adieresis -80  
KPX V Agrave -80  
KPX V Amacron -80  
KPX V Aogonek -80  
KPX V Aring -80  
KPX V Atilde -80  
KPX V G -40  
KPX V Gbreve -40  
KPX V Gcommaaccent -40  
KPX V O -40  
KPX V Oacute -40  
KPX V Ocircumflex -40  
KPX V Odieresis -40  
KPX V Ograve -40  
KPX V Ohungarumlaut -40  
KPX V Omacron -40  
KPX V Oslash -40  
KPX V Otilde -40  
KPX V a -70  
KPX V aacute -70  
KPX V abreve -70  
KPX V acircumflex -70  
KPX V adieresis -70  
KPX V agrave -70  
KPX V amacron -70  
KPX V aogonek -70  
KPX V aring -70  
KPX V atilde -70

KPX V colon -40  
KPX V comma -125  
KPX V e -80  
KPX V eacute -80  
KPX V ecaron -80  
KPX V ecircumflex -80  
KPX V edieresis -80  
KPX V edotaccent -80  
KPX V egrave -80  
KPX V emacron -80  
KPX V eogonek -80  
KPX V hyphen -80  
KPX V o -80  
KPX V oacute -80  
KPX V ocircumflex -80  
KPX V odieresis -80  
KPX V ograve -80  
KPX V ohungarumlaut -80  
KPX V omacron -80  
KPX V oslash -80  
KPX V otilde -80  
KPX V period -125  
KPX V semicolon -40  
KPX V u -70  
KPX V uacute -70  
KPX V ucircumflex -70  
KPX V udieresis -70  
KPX V ugrave -70  
KPX V uhungarumlaut -70  
KPX V umacron -70  
KPX V uogonek -70  
KPX V uring -70  
KPX W A -50  
KPX W Aacute -50  
KPX W Abreve -50  
KPX W Acircumflex -50  
KPX W Adieresis -50  
KPX W Agrave -50  
KPX W Amacron -50  
KPX W Aogonek -50  
KPX W Aring -50  
KPX W Atilde -50  
KPX W O -20  
KPX W Oacute -20  
KPX W Ocircumflex -20  
KPX W Odieresis -20  
KPX W Ograve -20  
KPX W Ohungarumlaut -20



KPX W Omacron -20  
KPX W Oslash -20  
KPX W Otilde -20  
KPX W a -40  
KPX W aacute -40  
KPX W abreve -40  
KPX W acircumflex -40  
KPX W adieresis -40  
KPX W agrave -40  
KPX W amacron -40  
KPX W aogonek -40  
KPX W aring -40  
KPX W atilde -40  
KPX W comma -80  
KPX W e -30  
KPX W eacute -30  
KPX W ecaron -30  
KPX W ecircumflex -30  
KPX W edieresis -30  
KPX W edotaccent -30  
KPX W egrave -30  
KPX W emacron -30  
KPX W eogonek -30  
KPX W hyphen -40  
KPX W o -30  
KPX W oacute -30  
KPX W ocircumflex -30  
KPX W odieresis -30  
KPX W ograve -30  
KPX W ohungarumlaut -30  
KPX W omacron -30  
KPX W oslash -30  
KPX W otilde -30  
KPX W period -80  
KPX W u -30  
KPX W uacute -30  
KPX W ucircumflex -30  
KPX W udieresis -30  
KPX W ugrave -30  
KPX W uhungarumlaut -30  
KPX W umacron -30  
KPX W uogonek -30  
KPX W uring -30  
KPX W y -20  
KPX W yacute -20  
KPX W ydieresis -20  
KPX Y A -110  
KPX Y Aacute -110

KPX Y Abreve -110  
KPX Y Acircumflex -110  
KPX Y Adieresis -110  
KPX Y Agrave -110  
KPX Y Amacron -110  
KPX Y Aogonek -110  
KPX Y Aring -110  
KPX Y Atilde -110  
KPX Y O -85  
KPX Y Oacute -85  
KPX Y Ocircumflex -85  
KPX Y Odieresis -85  
KPX Y Ograve -85  
KPX Y Ohungarumlaut -85  
KPX Y Omacron -85  
KPX Y Oslash -85  
KPX Y Otilde -85  
KPX Y a -140  
KPX Y aacute -140  
KPX Y abreve -70  
KPX Y acircumflex -140  
KPX Y adieresis -140  
KPX Y agrave -140  
KPX Y amacron -70  
KPX Y aogonek -140  
KPX Y aring -140  
KPX Y atilde -140  
KPX Y colon -60  
KPX Y comma -140  
KPX Y e -140  
KPX Y eacute -140  
KPX Y ecaron -140  
KPX Y ecircumflex -140  
KPX Y edieresis -140  
KPX Y edotaccent -140  
KPX Y egrave -140  
KPX Y emacron -70  
KPX Y eogonek -140  
KPX Y hyphen -140  
KPX Y i -20  
KPX Y iacute -20  
KPX Y iogonek -20  
KPX Y o -140  
KPX Y oacute -140  
KPX Y ocircumflex -140  
KPX Y odieresis -140  
KPX Y ograve -140  
KPX Y ohungarumlaut -140

KPX Y omacron -140  
KPX Y oslash -140  
KPX Y otilde -140  
KPX Y period -140  
KPX Y semicolon -60  
KPX Y u -110  
KPX Y uacute -110  
KPX Y ucircumflex -110  
KPX Y udieresis -110  
KPX Y ugrave -110  
KPX Y uhungarumlaut -110  
KPX Y umacron -110  
KPX Y uogonek -110  
KPX Y uring -110  
KPX Yacute A -110  
KPX Yacute Aacute -110  
KPX Yacute Abreve -110  
KPX Yacute Acircumflex -110  
KPX Yacute Adieresis -110  
KPX Yacute Agrave -110  
KPX Yacute Amacron -110  
KPX Yacute Aogonek -110  
KPX Yacute Aring -110  
KPX Yacute Atilde -110  
KPX Yacute O -85  
KPX Yacute Oacute -85  
KPX Yacute Ocircumflex -85  
KPX Yacute Odieresis -85  
KPX Yacute Ograve -85  
KPX Yacute Ohungarumlaut -85  
KPX Yacute Omacron -85  
KPX Yacute Oslash -85  
KPX Yacute Otilde -85  
KPX Yacute a -140  
KPX Yacute aacute -140  
KPX Yacute abreve -70  
KPX Yacute acircumflex -140  
KPX Yacute adieresis -140  
KPX Yacute agrave -140  
KPX Yacute amacron -70  
KPX Yacute aogonek -140  
KPX Yacute aring -140  
KPX Yacute atilde -70  
KPX Yacute colon -60  
KPX Yacute comma -140  
KPX Yacute e -140  
KPX Yacute eacute -140  
KPX Yacute ecaron -140

KPX Yacute ecircumflex -140  
KPX Yacute edieresis -140  
KPX Yacute edotaccent -140  
KPX Yacute egrave -140  
KPX Yacute emacron -70  
KPX Yacute eogonek -140  
KPX Yacute hyphen -140  
KPX Yacute i -20  
KPX Yacute iacute -20  
KPX Yacute iogonek -20  
KPX Yacute o -140  
KPX Yacute oacute -140  
KPX Yacute ocircumflex -140  
KPX Yacute odieresis -140  
KPX Yacute ograve -140  
KPX Yacute ohungarumlaut -140  
KPX Yacute omacron -70  
KPX Yacute oslash -140  
KPX Yacute otilde -140  
KPX Yacute period -140  
KPX Yacute semicolon -60  
KPX Yacute u -110  
KPX Yacute uacute -110  
KPX Yacute ucircumflex -110  
KPX Yacute udieresis -110  
KPX Yacute ugrave -110  
KPX Yacute uhungarumlaut -110  
KPX Yacute umacron -110  
KPX Yacute uogonek -110  
KPX Yacute uring -110  
KPX Ydieresis A -110  
KPX Ydieresis Aacute -110  
KPX Ydieresis Abreve -110  
KPX Ydieresis Acircumflex -110  
KPX Ydieresis Adieresis -110  
KPX Ydieresis Agrave -110  
KPX Ydieresis Amacron -110  
KPX Ydieresis Aogonek -110  
KPX Ydieresis Aring -110  
KPX Ydieresis Atilde -110  
KPX Ydieresis O -85  
KPX Ydieresis Oacute -85  
KPX Ydieresis Ocircumflex -85  
KPX Ydieresis Odieresis -85  
KPX Ydieresis Ograve -85  
KPX Ydieresis Ohungarumlaut -85  
KPX Ydieresis Omacron -85  
KPX Ydieresis Oslash -85

KPX Ydieresis Otilde -85  
KPX Ydieresis a -140  
KPX Ydieresis aacute -140  
KPX Ydieresis abreve -70  
KPX Ydieresis acircumflex -140  
KPX Ydieresis adieresis -140  
KPX Ydieresis agrave -140  
KPX Ydieresis amacron -70  
KPX Ydieresis aogonek -140  
KPX Ydieresis aring -140  
KPX Ydieresis atilde -70  
KPX Ydieresis colon -60  
KPX Ydieresis comma -140  
KPX Ydieresis e -140  
KPX Ydieresis eacute -140  
KPX Ydieresis ecaron -140  
KPX Ydieresis ecircumflex -140  
KPX Ydieresis edieresis -140  
KPX Ydieresis edotaccent -140  
KPX Ydieresis egrave -140  
KPX Ydieresis emacron -70  
KPX Ydieresis eogonek -140  
KPX Ydieresis hyphen -140  
KPX Ydieresis i -20  
KPX Ydieresis iacute -20  
KPX Ydieresis iogonek -20  
KPX Ydieresis o -140  
KPX Ydieresis oacute -140  
KPX Ydieresis ocircumflex -140  
KPX Ydieresis odieresis -140  
KPX Ydieresis ograve -140  
KPX Ydieresis ohungarumlaut -140  
KPX Ydieresis omacron -140  
KPX Ydieresis oslash -140  
KPX Ydieresis otilde -140  
KPX Ydieresis period -140  
KPX Ydieresis semicolon -60  
KPX Ydieresis u -110  
KPX Ydieresis uacute -110  
KPX Ydieresis ucircumflex -110  
KPX Ydieresis udieresis -110  
KPX Ydieresis ugrave -110  
KPX Ydieresis uhungarumlaut -110  
KPX Ydieresis umacron -110  
KPX Ydieresis uogonek -110  
KPX Ydieresis uring -110  
KPX a v -20  
KPX a w -20

KPX a y -30  
KPX a yacute -30  
KPX a ydieresis -30  
KPX aacute v -20  
KPX aacute w -20  
KPX aacute y -30  
KPX aacute yacute -30  
KPX aacute ydieresis -30  
KPX abreve v -20  
KPX abreve w -20  
KPX abreve y -30  
KPX abreve yacute -30  
KPX abreve ydieresis -30  
KPX acircumflex v -20  
KPX acircumflex w -20  
KPX acircumflex y -30  
KPX acircumflex yacute -30  
KPX acircumflex ydieresis -30  
KPX adieresis v -20  
KPX adieresis w -20  
KPX adieresis y -30  
KPX adieresis yacute -30  
KPX adieresis ydieresis -30  
KPX agrave v -20  
KPX agrave w -20  
KPX agrave y -30  
KPX agrave yacute -30  
KPX agrave ydieresis -30  
KPX amacron v -20  
KPX amacron w -20  
KPX amacron y -30  
KPX amacron yacute -30  
KPX amacron ydieresis -30  
KPX aogonek v -20  
KPX aogonek w -20  
KPX aogonek y -30  
KPX aogonek yacute -30  
KPX aogonek ydieresis -30  
KPX aring v -20  
KPX aring w -20  
KPX aring y -30  
KPX aring yacute -30  
KPX aring ydieresis -30  
KPX atilde v -20  
KPX atilde w -20  
KPX atilde y -30  
KPX atilde yacute -30  
KPX atilde ydieresis -30

KPX b b -10  
KPX b comma -40  
KPX b l -20  
KPX b lacute -20  
KPX b lcommaaccent -20  
KPX b lslash -20  
KPX b period -40  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX b v -20  
KPX b y -20  
KPX b yacute -20  
KPX b ydieresis -20  
KPX c comma -15  
KPX c k -20  
KPX c kcommaaccent -20  
KPX cacute comma -15  
KPX cacute k -20  
KPX cacute kcommaaccent -20  
KPX ccaron comma -15  
KPX ccaron k -20  
KPX ccaron kcommaaccent -20  
KPX ccedilla comma -15  
KPX ccedilla k -20  
KPX ccedilla kcommaaccent -20  
KPX colon space -50  
KPX comma quotedblright -100  
KPX comma quoteright -100  
KPX e comma -15  
KPX e period -15  
KPX e v -30  
KPX e w -20  
KPX e x -30  
KPX e y -20  
KPX e yacute -20  
KPX e ydieresis -20  
KPX eacute comma -15  
KPX eacute period -15  
KPX eacute v -30  
KPX eacute w -20  
KPX eacute x -30

KPX eacute y -20  
KPX eacute yacute -20  
KPX eacute ydieresis -20  
KPX ecaron comma -15  
KPX ecaron period -15  
KPX ecaron v -30  
KPX ecaron w -20  
KPX ecaron x -30  
KPX ecaron y -20  
KPX ecaron yacute -20  
KPX ecaron ydieresis -20  
KPX ecircumflex comma -15  
KPX ecircumflex period -15  
KPX ecircumflex v -30  
KPX ecircumflex w -20  
KPX ecircumflex x -30  
KPX ecircumflex y -20  
KPX ecircumflex yacute -20  
KPX ecircumflex ydieresis -20  
KPX edieresis comma -15  
KPX edieresis period -15  
KPX edieresis v -30  
KPX edieresis w -20  
KPX edieresis x -30  
KPX edieresis y -20  
KPX edieresis yacute -20  
KPX edieresis ydieresis -20  
KPX edotaccent comma -15  
KPX edotaccent period -15  
KPX edotaccent v -30  
KPX edotaccent w -20  
KPX edotaccent x -30  
KPX edotaccent y -20  
KPX edotaccent yacute -20  
KPX edotaccent ydieresis -20  
KPX egrave comma -15  
KPX egrave period -15  
KPX egrave v -30  
KPX egrave w -20  
KPX egrave x -30  
KPX egrave y -20  
KPX egrave yacute -20  
KPX egrave ydieresis -20  
KPX emacron comma -15  
KPX emacron period -15  
KPX emacron v -30  
KPX emacron w -20  
KPX emacron x -30



KPX emacron y -20  
KPX emacron yacute -20  
KPX emacron ydieresis -20  
KPX eogonek comma -15  
KPX eogonek period -15  
KPX eogonek v -30  
KPX eogonek w -20  
KPX eogonek x -30  
KPX eogonek y -20  
KPX eogonek yacute -20  
KPX eogonek ydieresis -20  
KPX f a -30  
KPX f acute -30  
KPX f abreve -30  
KPX f acircumflex -30  
KPX f adieresis -30  
KPX f agrave -30  
KPX f amacron -30  
KPX f aogonek -30  
KPX f aring -30  
KPX f atilde -30  
KPX f comma -30  
KPX f dotlessi -28  
KPX f e -30  
KPX f eacute -30  
KPX f ecaron -30  
KPX f ecircumflex -30  
KPX f edieresis -30  
KPX f edotaccent -30  
KPX f egrave -30  
KPX f emacron -30  
KPX f eogonek -30  
KPX f o -30  
KPX f oacute -30  
KPX f ocircumflex -30  
KPX f odieresis -30  
KPX f ograve -30  
KPX f ohungarumlaut -30  
KPX f omacron -30  
KPX f oslash -30  
KPX f otilde -30  
KPX f period -30  
KPX f quotedblright 60  
KPX f quoteright 50  
KPX g r -10  
KPX g racute -10  
KPX g rcaron -10  
KPX g rcommaaccent -10

KPX gbreve r -10  
KPX gbreve racute -10  
KPX gbreve rcaron -10  
KPX gbreve rcommaaccent -10  
KPX gcommaaccent r -10  
KPX gcommaaccent racute -10  
KPX gcommaaccent rcaron -10  
KPX gcommaaccent rcommaaccent -10  
KPX h y -30  
KPX h yacute -30  
KPX h ydieresis -30  
KPX k e -20  
KPX k eacute -20  
KPX k ecaron -20  
KPX k ecircumflex -20  
KPX k edieresis -20  
KPX k edotaccent -20  
KPX k egrave -20  
KPX k emacron -20  
KPX k eogonek -20  
KPX k o -20  
KPX k oacute -20  
KPX k ocircumflex -20  
KPX k odieresis -20  
KPX k ograve -20  
KPX k ohungarumlaut -20  
KPX k omacron -20  
KPX k oslash -20  
KPX k otilde -20  
KPX kcommaaccent e -20  
KPX kcommaaccent eacute -20  
KPX kcommaaccent ecaron -20  
KPX kcommaaccent ecircumflex -20  
KPX kcommaaccent edieresis -20  
KPX kcommaaccent edotaccent -20  
KPX kcommaaccent egrave -20  
KPX kcommaaccent emacron -20  
KPX kcommaaccent eogonek -20  
KPX kcommaaccent o -20  
KPX kcommaaccent oacute -20  
KPX kcommaaccent ocircumflex -20  
KPX kcommaaccent odieresis -20  
KPX kcommaaccent ograve -20  
KPX kcommaaccent ohungarumlaut -20  
KPX kcommaaccent omacron -20  
KPX kcommaaccent oslash -20  
KPX kcommaaccent otilde -20  
KPX m u -10

KPX m uacute -10  
KPX m ucircumflex -10  
KPX m udieresis -10  
KPX m ugrave -10  
KPX m uhungarumlaut -10  
KPX m umacron -10  
KPX m uogonek -10  
KPX m uring -10  
KPX m y -15  
KPX m yacute -15  
KPX m ydieresis -15  
KPX n u -10  
KPX n uacute -10  
KPX n ucircumflex -10  
KPX n udieresis -10  
KPX n ugrave -10  
KPX n uhungarumlaut -10  
KPX n umacron -10  
KPX n uogonek -10  
KPX n uring -10  
KPX n v -20  
KPX n y -15  
KPX n yacute -15  
KPX n ydieresis -15  
KPX nacute u -10  
KPX nacute uacute -10  
KPX nacute ucircumflex -10  
KPX nacute udieresis -10  
KPX nacute ugrave -10  
KPX nacute uhungarumlaut -10  
KPX nacute umacron -10  
KPX nacute uogonek -10  
KPX nacute uring -10  
KPX nacute v -20  
KPX nacute y -15  
KPX nacute yacute -15  
KPX nacute ydieresis -15  
KPX ncaron u -10  
KPX ncaron uacute -10  
KPX ncaron ucircumflex -10  
KPX ncaron udieresis -10  
KPX ncaron ugrave -10  
KPX ncaron uhungarumlaut -10  
KPX ncaron umacron -10  
KPX ncaron uogonek -10  
KPX ncaron uring -10  
KPX ncaron v -20  
KPX ncaron y -15

KPX ncaron yacute -15  
KPX ncaron ydieresis -15  
KPX ncommaaccent u -10  
KPX ncommaaccent uacute -10  
KPX ncommaaccent ucircumflex -10  
KPX ncommaaccent udieresis -10  
KPX ncommaaccent ugrave -10  
KPX ncommaaccent uhungarumlaut -10  
KPX ncommaaccent umacron -10  
KPX ncommaaccent uogonek -10  
KPX ncommaaccent uring -10  
KPX ncommaaccent v -20  
KPX ncommaaccent y -15  
KPX ncommaaccent yacute -15  
KPX ncommaaccent ydieresis -15  
KPX ntilde u -10  
KPX ntilde uacute -10  
KPX ntilde ucircumflex -10  
KPX ntilde udieresis -10  
KPX ntilde ugrave -10  
KPX ntilde uhungarumlaut -10  
KPX ntilde umacron -10  
KPX ntilde uogonek -10  
KPX ntilde uring -10  
KPX ntilde v -20  
KPX ntilde y -15  
KPX ntilde yacute -15  
KPX ntilde ydieresis -15  
KPX o comma -40  
KPX o period -40  
KPX o v -15  
KPX o w -15  
KPX o x -30  
KPX o y -30  
KPX o yacute -30  
KPX o ydieresis -30  
KPX oacute comma -40  
KPX oacute period -40  
KPX oacute v -15  
KPX oacute w -15  
KPX oacute x -30  
KPX oacute y -30  
KPX oacute yacute -30  
KPX oacute ydieresis -30  
KPX ocircumflex comma -40  
KPX ocircumflex period -40  
KPX ocircumflex v -15  
KPX ocircumflex w -15

KPX ocircumflex x -30  
KPX ocircumflex y -30  
KPX ocircumflex yacute -30  
KPX ocircumflex ydieresis -30  
KPX odieresis comma -40  
KPX odieresis period -40  
KPX odieresis v -15  
KPX odieresis w -15  
KPX odieresis x -30  
KPX odieresis y -30  
KPX odieresis yacute -30  
KPX odieresis ydieresis -30  
KPX ograve comma -40  
KPX ograve period -40  
KPX ograve v -15  
KPX ograve w -15  
KPX ograve x -30  
KPX ograve y -30  
KPX ograve yacute -30  
KPX ograve ydieresis -30  
KPX ohungarumlaut comma -40  
KPX ohungarumlaut period -40  
KPX ohungarumlaut v -15  
KPX ohungarumlaut w -15  
KPX ohungarumlaut x -30  
KPX ohungarumlaut y -30  
KPX ohungarumlaut yacute -30  
KPX ohungarumlaut ydieresis -30  
KPX omacron comma -40  
KPX omacron period -40  
KPX omacron v -15  
KPX omacron w -15  
KPX omacron x -30  
KPX omacron y -30  
KPX omacron yacute -30  
KPX omacron ydieresis -30  
KPX oslash a -55  
KPX oslash aacute -55  
KPX oslash abreve -55  
KPX oslash acircumflex -55  
KPX oslash adieresis -55  
KPX oslash agrave -55  
KPX oslash amacron -55  
KPX oslash aogonek -55  
KPX oslash aring -55  
KPX oslash atilde -55  
KPX oslash b -55  
KPX oslash c -55

KPX oslash cacute -55  
KPX oslash ccaron -55  
KPX oslash ccedilla -55  
KPX oslash comma -95  
KPX oslash d -55  
KPX oslash deroat -55  
KPX oslash e -55  
KPX oslash eacute -55  
KPX oslash ecaron -55  
KPX oslash ecircumflex -55  
KPX oslash edieresis -55  
KPX oslash edotaccent -55  
KPX oslash egrave -55  
KPX oslash emacron -55  
KPX oslash eogonek -55  
KPX oslash f -55  
KPX oslash g -55  
KPX oslash gbreve -55  
KPX oslash gcommaaccent -55  
KPX oslash h -55  
KPX oslash i -55  
KPX oslash iacute -55  
KPX oslash icircumflex -55  
KPX oslash idieresis -55  
KPX oslash igrave -55  
KPX oslash imacron -55  
KPX oslash iogonek -55  
KPX oslash j -55  
KPX oslash k -55  
KPX oslash kcommaaccent -55  
KPX oslash l -55  
KPX oslash lacute -55  
KPX oslash lcommaaccent -55  
KPX oslash lslash -55  
KPX oslash m -55  
KPX oslash n -55  
KPX oslash nacute -55  
KPX oslash ncaron -55  
KPX oslash ncommaaccent -55  
KPX oslash ntilde -55  
KPX oslash o -55  
KPX oslash oacute -55  
KPX oslash ocircumflex -55  
KPX oslash odieresis -55  
KPX oslash ograve -55  
KPX oslash ohungarumlaut -55  
KPX oslash omacron -55  
KPX oslash oslash -55

KPX oslash otilde -55  
KPX oslash p -55  
KPX oslash period -95  
KPX oslash q -55  
KPX oslash r -55  
KPX oslash racute -55  
KPX oslash rcaron -55  
KPX oslash rcommaaccent -55  
KPX oslash s -55  
KPX oslash sacute -55  
KPX oslash scaron -55  
KPX oslash scedilla -55  
KPX oslash scommaaccent -55  
KPX oslash t -55  
KPX oslash tcommaaccent -55  
KPX oslash u -55  
KPX oslash uacute -55  
KPX oslash ucircumflex -55  
KPX oslash udieresis -55  
KPX oslash ugrave -55  
KPX oslash uhungarumlaut -55  
KPX oslash umacron -55  
KPX oslash uogonek -55  
KPX oslash uring -55  
KPX oslash v -70  
KPX oslash w -70  
KPX oslash x -85  
KPX oslash y -70  
KPX oslash yacute -70  
KPX oslash ydieresis -70  
KPX oslash z -55  
KPX oslash zacute -55  
KPX oslash zcaron -55  
KPX oslash zdotaccent -55  
KPX otilde comma -40  
KPX otilde period -40  
KPX otilde v -15  
KPX otilde w -15  
KPX otilde x -30  
KPX otilde y -30  
KPX otilde yacute -30  
KPX otilde ydieresis -30  
KPX p comma -35  
KPX p period -35  
KPX p y -30  
KPX p yacute -30  
KPX p ydieresis -30  
KPX period quotedblright -100

KPX period quoteright -100  
KPX period space -60  
KPX quotedblright space -40  
KPX quoteleft quoteleft -57  
KPX quoteright d -50  
KPX quoteright dcroat -50  
KPX quoteright quoteright -57  
KPX quoteright r -50  
KPX quoteright racute -50  
KPX quoteright rcaron -50  
KPX quoteright rcommaaccent -50  
KPX quoteright s -50  
KPX quoteright sacute -50  
KPX quoteright scaron -50  
KPX quoteright scedilla -50  
KPX quoteright scommaaccent -50  
KPX quoteright space -70  
KPX r a -10  
KPX r acute -10  
KPX r abreve -10  
KPX r acircumflex -10  
KPX r adieresis -10  
KPX r agrave -10  
KPX r amacron -10  
KPX r aogonek -10  
KPX r aring -10  
KPX r atilde -10  
KPX r colon 30  
KPX r comma -50  
KPX r i 15  
KPX r iacute 15  
KPX r icircumflex 15  
KPX r idieresis 15  
KPX r igrave 15  
KPX r imacron 15  
KPX r iogonek 15  
KPX r k 15  
KPX r kcommaaccent 15  
KPX r l 15  
KPX r lacute 15  
KPX r lcommaaccent 15  
KPX r lslash 15  
KPX r m 25  
KPX r n 25  
KPX r nacute 25  
KPX r ncaron 25  
KPX r ncommaaccent 25  
KPX r ntilde 25



KPX r p 30  
KPX r period -50  
KPX r semicolon 30  
KPX r t 40  
KPX r tcommaaccent 40  
KPX r u 15  
KPX r uacute 15  
KPX r ucircumflex 15  
KPX r udieresis 15  
KPX r ugrave 15  
KPX r uhungarumlaut 15  
KPX r umacron 15  
KPX r uogonek 15  
KPX r uring 15  
KPX r v 30  
KPX r y 30  
KPX r yacute 30  
KPX r ydieresis 30  
KPX racute a -10  
KPX racute aacute -10  
KPX racute abreve -10  
KPX racute acircumflex -10  
KPX racute adieresis -10  
KPX racute agrave -10  
KPX racute amacron -10  
KPX racute aogonek -10  
KPX racute aring -10  
KPX racute atilde -10  
KPX racute colon 30  
KPX racute comma -50  
KPX racute i 15  
KPX racute iacute 15  
KPX racute icircumflex 15  
KPX racute idieresis 15  
KPX racute igrave 15  
KPX racute imacron 15  
KPX racute iogonek 15  
KPX racute k 15  
KPX racute kcommaaccent 15  
KPX racute l 15  
KPX racute lacute 15  
KPX racute lcommaaccent 15  
KPX racute lslash 15  
KPX racute m 25  
KPX racute n 25  
KPX racute nacute 25  
KPX racute ncaron 25  
KPX racute ncommaaccent 25

KPX racute ntilde 25  
KPX racute p 30  
KPX racute period -50  
KPX racute semicolon 30  
KPX racute t 40  
KPX racute tcommaaccent 40  
KPX racute u 15  
KPX racute uacute 15  
KPX racute ucircumflex 15  
KPX racute udieresis 15  
KPX racute ugrave 15  
KPX racute uhungarumlaut 15  
KPX racute umacron 15  
KPX racute uogonek 15  
KPX racute uring 15  
KPX racute v 30  
KPX racute y 30  
KPX racute yacute 30  
KPX racute ydieresis 30  
KPX rcaron a -10  
KPX rcaron aacute -10  
KPX rcaron abreve -10  
KPX rcaron acircumflex -10  
KPX rcaron adieresis -10  
KPX rcaron agrave -10  
KPX rcaron amacron -10  
KPX rcaron aogonek -10  
KPX rcaron aring -10  
KPX rcaron atilde -10  
KPX rcaron colon 30  
KPX rcaron comma -50  
KPX rcaron i 15  
KPX rcaron iacute 15  
KPX rcaron icircumflex 15  
KPX rcaron idieresis 15  
KPX rcaron igrave 15  
KPX rcaron imacron 15  
KPX rcaron iogonek 15  
KPX rcaron k 15  
KPX rcaron kcommaaccent 15  
KPX rcaron l 15  
KPX rcaron lacute 15  
KPX rcaron lcommaaccent 15  
KPX rcaron lslash 15  
KPX rcaron m 25  
KPX rcaron n 25  
KPX rcaron nacute 25  
KPX rcaron ncaron 25

KPX rcaron ncommaaccent 25  
KPX rcaron ntilde 25  
KPX rcaron p 30  
KPX rcaron period -50  
KPX rcaron semicolon 30  
KPX rcaron t 40  
KPX rcaron tcommaaccent 40  
KPX rcaron u 15  
KPX rcaron uacute 15  
KPX rcaron ucircumflex 15  
KPX rcaron udieresis 15  
KPX rcaron ugrave 15  
KPX rcaron uhungarumlaut 15  
KPX rcaron umacron 15  
KPX rcaron uogonek 15  
KPX rcaron uring 15  
KPX rcaron v 30  
KPX rcaron y 30  
KPX rcaron yacute 30  
KPX rcaron ydieresis 30  
KPX rcommaaccent a -10  
KPX rcommaaccent aacute -10  
KPX rcommaaccent abreve -10  
KPX rcommaaccent acircumflex -10  
KPX rcommaaccent adieresis -10  
KPX rcommaaccent agrave -10  
KPX rcommaaccent amacron -10  
KPX rcommaaccent aogonek -10  
KPX rcommaaccent aring -10  
KPX rcommaaccent atilde -10  
KPX rcommaaccent colon 30  
KPX rcommaaccent comma -50  
KPX rcommaaccent i 15  
KPX rcommaaccent iacute 15  
KPX rcommaaccent icircumflex 15  
KPX rcommaaccent idieresis 15  
KPX rcommaaccent igrave 15  
KPX rcommaaccent imacron 15  
KPX rcommaaccent iogonek 15  
KPX rcommaaccent k 15  
KPX rcommaaccent kcommaaccent 15  
KPX rcommaaccent l 15  
KPX rcommaaccent lacute 15  
KPX rcommaaccent lcommaaccent 15  
KPX rcommaaccent lslash 15  
KPX rcommaaccent m 25  
KPX rcommaaccent n 25  
KPX rcommaaccent nacute 25

KPX rcommaaccent ncaron 25  
KPX rcommaaccent ncommaaccent 25  
KPX rcommaaccent ntilde 25  
KPX rcommaaccent p 30  
KPX rcommaaccent period -50  
KPX rcommaaccent semicolon 30  
KPX rcommaaccent t 40  
KPX rcommaaccent tcommaaccent 40  
KPX rcommaaccent u 15  
KPX rcommaaccent uacute 15  
KPX rcommaaccent ucircumflex 15  
KPX rcommaaccent udieresis 15  
KPX rcommaaccent ugrave 15  
KPX rcommaaccent uhungarumlaut 15  
KPX rcommaaccent umacron 15  
KPX rcommaaccent uogonek 15  
KPX rcommaaccent uring 15  
KPX rcommaaccent v 30  
KPX rcommaaccent y 30  
KPX rcommaaccent yacute 30  
KPX rcommaaccent ydieresis 30  
KPX s comma -15  
KPX s period -15  
KPX s w -30  
KPX sacute comma -15  
KPX sacute period -15  
KPX sacute w -30  
KPX scaron comma -15  
KPX scaron period -15  
KPX scaron w -30  
KPX scedilla comma -15  
KPX scedilla period -15  
KPX scedilla w -30  
KPX scommaaccent comma -15  
KPX scommaaccent period -15  
KPX scommaaccent w -30  
KPX semicolon space -50  
KPX space T -50  
KPX space Tcaron -50  
KPX space Tcommaaccent -50  
KPX space V -50  
KPX space W -40  
KPX space Y -90  
KPX space Yacute -90  
KPX space Ydieresis -90  
KPX space quotedblleft -30  
KPX space quoteleft -60  
KPX v a -25

KPX v acute -25  
KPX v abreve -25  
KPX v acircumflex -25  
KPX v adieresis -25  
KPX v agrave -25  
KPX v amacron -25  
KPX v aogonek -25  
KPX v aring -25  
KPX v atilde -25  
KPX v comma -80  
KPX v e -25  
KPX v eacute -25  
KPX v ecaron -25  
KPX v ecircumflex -25  
KPX v edieresis -25  
KPX v edotaccent -25  
KPX v egrave -25  
KPX v emacron -25  
KPX v eogonek -25  
KPX v o -25  
KPX v oacute -25  
KPX v ocircumflex -25  
KPX v odieresis -25  
KPX v ograve -25  
KPX v ohungarumlaut -25  
KPX v omacron -25  
KPX v oslash -25  
KPX v otilde -25  
KPX v period -80  
KPX w a -15  
KPX w acute -15  
KPX w abreve -15  
KPX w acircumflex -15  
KPX w adieresis -15  
KPX w agrave -15  
KPX w amacron -15  
KPX w aogonek -15  
KPX w aring -15  
KPX w atilde -15  
KPX w comma -60  
KPX w e -10  
KPX w eacute -10  
KPX w ecaron -10  
KPX w ecircumflex -10  
KPX w edieresis -10  
KPX w edotaccent -10  
KPX w egrave -10  
KPX w emacron -10

KPX w eogonek -10  
KPX w o -10  
KPX w oacute -10  
KPX w ocircumflex -10  
KPX w odieresis -10  
KPX w ograve -10  
KPX w ohungarumlaut -10  
KPX w omacron -10  
KPX w oslash -10  
KPX w otilde -10  
KPX w period -60  
KPX x e -30  
KPX x eacute -30  
KPX x ecaron -30  
KPX x ecircumflex -30  
KPX x edieresis -30  
KPX x edotaccent -30  
KPX x egrave -30  
KPX x emacron -30  
KPX x eogonek -30  
KPX y a -20  
KPX y aacute -20  
KPX y abreve -20  
KPX y acircumflex -20  
KPX y adieresis -20  
KPX y agrave -20  
KPX y amacron -20  
KPX y aogonek -20  
KPX y aring -20  
KPX y atilde -20  
KPX y comma -100  
KPX y e -20  
KPX y eacute -20  
KPX y ecaron -20  
KPX y ecircumflex -20  
KPX y edieresis -20  
KPX y edotaccent -20  
KPX y egrave -20  
KPX y emacron -20  
KPX y eogonek -20  
KPX y o -20  
KPX y oacute -20  
KPX y ocircumflex -20  
KPX y odieresis -20  
KPX y ograve -20  
KPX y ohungarumlaut -20  
KPX y omacron -20  
KPX y oslash -20

KPX y otilde -20  
KPX y period -100  
KPX yacute a -20  
KPX yacute aacute -20  
KPX yacute abreve -20  
KPX yacute acircumflex -20  
KPX yacute adieresis -20  
KPX yacute agrave -20  
KPX yacute amacron -20  
KPX yacute aogonek -20  
KPX yacute aring -20  
KPX yacute atilde -20  
KPX yacute comma -100  
KPX yacute e -20  
KPX yacute eacute -20  
KPX yacute ecaron -20  
KPX yacute ecircumflex -20  
KPX yacute edieresis -20  
KPX yacute edotaccent -20  
KPX yacute egrave -20  
KPX yacute emacron -20  
KPX yacute eogonek -20  
KPX yacute o -20  
KPX yacute oacute -20  
KPX yacute ocircumflex -20  
KPX yacute odieresis -20  
KPX yacute ograve -20  
KPX yacute ohungarumlaut -20  
KPX yacute omacron -20  
KPX yacute oslash -20  
KPX yacute otilde -20  
KPX yacute period -100  
KPX ydieresis a -20  
KPX ydieresis aacute -20  
KPX ydieresis abreve -20  
KPX ydieresis acircumflex -20  
KPX ydieresis adieresis -20  
KPX ydieresis agrave -20  
KPX ydieresis amacron -20  
KPX ydieresis aogonek -20  
KPX ydieresis aring -20  
KPX ydieresis atilde -20  
KPX ydieresis comma -100  
KPX ydieresis e -20  
KPX ydieresis eacute -20  
KPX ydieresis ecaron -20  
KPX ydieresis ecircumflex -20  
KPX ydieresis edieresis -20

KPX ydieresis edotaccent -20  
KPX ydieresis egrave -20  
KPX ydieresis emacron -20  
KPX ydieresis eogonek -20  
KPX ydieresis o -20  
KPX ydieresis oacute -20  
KPX ydieresis ocircumflex -20  
KPX ydieresis odieresis -20  
KPX ydieresis ograve -20  
KPX ydieresis ohungarumlaut -20  
KPX ydieresis omacron -20  
KPX ydieresis oslash -20  
KPX ydieresis otilde -20  
KPX ydieresis period -100  
KPX z e -15  
KPX z eacute -15  
KPX z ecaron -15  
KPX z ecircumflex -15  
KPX z edieresis -15  
KPX z edotaccent -15  
KPX z egrave -15  
KPX z emacron -15  
KPX z eogonek -15  
KPX z o -15  
KPX z oacute -15  
KPX z ocircumflex -15  
KPX z odieresis -15  
KPX z ograve -15  
KPX z ohungarumlaut -15  
KPX z omacron -15  
KPX z oslash -15  
KPX z otilde -15  
KPX zacute e -15  
KPX zacute eacute -15  
KPX zacute ecaron -15  
KPX zacute ecircumflex -15  
KPX zacute edieresis -15  
KPX zacute edotaccent -15  
KPX zacute egrave -15  
KPX zacute emacron -15  
KPX zacute eogonek -15  
KPX zacute o -15  
KPX zacute oacute -15  
KPX zacute ocircumflex -15  
KPX zacute odieresis -15  
KPX zacute ograve -15  
KPX zacute ohungarumlaut -15  
KPX zacute omacron -15



KPX zacute oslash -15  
KPX zacute otilde -15  
KPX zcaron e -15  
KPX zcaron eacute -15  
KPX zcaron ecaron -15  
KPX zcaron ecircumflex -15  
KPX zcaron edieresis -15  
KPX zcaron edotaccent -15  
KPX zcaron egrave -15  
KPX zcaron emacron -15  
KPX zcaron eogonek -15  
KPX zcaron o -15  
KPX zcaron oacute -15  
KPX zcaron ocircumflex -15  
KPX zcaron odieresis -15  
KPX zcaron ograve -15  
KPX zcaron ohungarumlaut -15  
KPX zcaron omacron -15  
KPX zcaron oslash -15  
KPX zcaron otilde -15  
KPX zdotaccent e -15  
KPX zdotaccent eacute -15  
KPX zdotaccent ecaron -15  
KPX zdotaccent ecircumflex -15  
KPX zdotaccent edieresis -15  
KPX zdotaccent edotaccent -15  
KPX zdotaccent egrave -15  
KPX zdotaccent emacron -15  
KPX zdotaccent eogonek -15  
KPX zdotaccent o -15  
KPX zdotaccent oacute -15  
KPX zdotaccent ocircumflex -15  
KPX zdotaccent odieresis -15  
KPX zdotaccent ograve -15  
KPX zdotaccent ohungarumlaut -15  
KPX zdotaccent omacron -15  
KPX zdotaccent oslash -15  
KPX zdotaccent otilde -15  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 4.1  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Thu May 1 15:12:25 1997  
Comment UniqueID 43064  
Comment VMusage 30820 39997  
FontName Symbol  
FullName Symbol

FamilyName Symbol  
Weight Medium  
ItalicAngle 0  
IsFixedPitch false  
CharacterSet Special  
FontBBox -180 -293 1090 1010  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.008  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.  
EncodingScheme FontSpecific  
StdHW 92  
StdVW 85  
StartCharMetrics 190  
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 128 -17 240 672 ;  
C 34 ; WX 713 ; N universal ; B 31 0 681 705 ;  
C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;  
C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;  
C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;  
C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;  
C 39 ; WX 439 ; N suchthat ; B 48 -17 414 500 ;  
C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;  
C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;  
C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;  
C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;  
C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;  
C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;  
C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;  
C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;  
C 48 ; WX 500 ; N zero ; B 24 -14 476 685 ;  
C 49 ; WX 500 ; N one ; B 117 0 390 673 ;  
C 50 ; WX 500 ; N two ; B 25 0 475 685 ;  
C 51 ; WX 500 ; N three ; B 43 -14 435 685 ;  
C 52 ; WX 500 ; N four ; B 15 0 469 685 ;  
C 53 ; WX 500 ; N five ; B 32 -14 445 690 ;  
C 54 ; WX 500 ; N six ; B 34 -14 468 685 ;  
C 55 ; WX 500 ; N seven ; B 24 -16 448 673 ;  
C 56 ; WX 500 ; N eight ; B 56 -14 445 685 ;  
C 57 ; WX 500 ; N nine ; B 30 -18 459 685 ;  
C 58 ; WX 278 ; N colon ; B 81 -17 193 460 ;  
C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;  
C 60 ; WX 549 ; N less ; B 26 0 523 522 ;  
C 61 ; WX 549 ; N equal ; B 11 141 537 390 ;  
C 62 ; WX 549 ; N greater ; B 26 0 523 522 ;  
C 63 ; WX 444 ; N question ; B 70 -17 412 686 ;  
C 64 ; WX 549 ; N congruent ; B 11 0 537 475 ;  
C 65 ; WX 722 ; N Alpha ; B 4 0 684 673 ;

C 66 ; WX 667 ; N Beta ; B 29 0 592 673 ;  
C 67 ; WX 722 ; N Chi ; B -9 0 704 673 ;  
C 68 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C 69 ; WX 611 ; N Epsilon ; B 32 0 617 673 ;  
C 70 ; WX 763 ; N Phi ; B 26 0 741 673 ;  
C 71 ; WX 603 ; N Gamma ; B 24 0 609 673 ;  
C 72 ; WX 722 ; N Eta ; B 39 0 729 673 ;  
C 73 ; WX 333 ; N Iota ; B 32 0 316 673 ;  
C 74 ; WX 631 ; N theta1 ; B 18 -18 623 689 ;  
C 75 ; WX 722 ; N Kappa ; B 35 0 722 673 ;  
C 76 ; WX 686 ; N Lambda ; B 6 0 680 688 ;  
C 77 ; WX 889 ; N Mu ; B 28 0 887 673 ;  
C 78 ; WX 722 ; N Nu ; B 29 -8 720 673 ;  
C 79 ; WX 722 ; N Omicron ; B 41 -17 715 685 ;  
C 80 ; WX 768 ; N Pi ; B 25 0 745 673 ;  
C 81 ; WX 741 ; N Theta ; B 41 -17 715 685 ;  
C 82 ; WX 556 ; N Rho ; B 28 0 563 673 ;  
C 83 ; WX 592 ; N Sigma ; B 5 0 589 673 ;  
C 84 ; WX 611 ; N Tau ; B 33 0 607 673 ;  
C 85 ; WX 690 ; N Upsilon ; B -8 0 694 673 ;  
C 86 ; WX 439 ; N sigma1 ; B 40 -233 436 500 ;  
C 87 ; WX 768 ; N Omega ; B 34 0 736 688 ;  
C 88 ; WX 645 ; N Xi ; B 40 0 599 673 ;  
C 89 ; WX 795 ; N Psi ; B 15 0 781 684 ;  
C 90 ; WX 611 ; N Zeta ; B 44 0 636 673 ;  
C 91 ; WX 333 ; N bracketleft ; B 86 -155 299 674 ;  
C 92 ; WX 863 ; N therefore ; B 163 0 701 487 ;  
C 93 ; WX 333 ; N bracketright ; B 33 -155 246 674 ;  
C 94 ; WX 658 ; N perpendicular ; B 15 0 652 674 ;  
C 95 ; WX 500 ; N underscore ; B -2 -125 502 -75 ;  
C 96 ; WX 500 ; N radicalex ; B 480 881 1090 917 ;  
C 97 ; WX 631 ; N alpha ; B 41 -18 622 500 ;  
C 98 ; WX 549 ; N beta ; B 61 -223 515 741 ;  
C 99 ; WX 549 ; N chi ; B 12 -231 522 499 ;  
C 100 ; WX 494 ; N delta ; B 40 -19 481 740 ;  
C 101 ; WX 439 ; N epsilon ; B 22 -19 427 502 ;  
C 102 ; WX 521 ; N phi ; B 28 -224 492 673 ;  
C 103 ; WX 411 ; N gamma ; B 5 -225 484 499 ;  
C 104 ; WX 603 ; N eta ; B 0 -202 527 514 ;  
C 105 ; WX 329 ; N iota ; B 0 -17 301 503 ;  
C 106 ; WX 603 ; N phi1 ; B 36 -224 587 499 ;  
C 107 ; WX 549 ; N kappa ; B 33 0 558 501 ;  
C 108 ; WX 549 ; N lambda ; B 24 -17 548 739 ;  
C 109 ; WX 576 ; N mu ; B 33 -223 567 500 ;  
C 110 ; WX 521 ; N nu ; B -9 -16 475 507 ;  
C 111 ; WX 549 ; N omicron ; B 35 -19 501 499 ;  
C 112 ; WX 549 ; N pi ; B 10 -19 530 487 ;  
C 113 ; WX 521 ; N theta ; B 43 -17 485 690 ;

C 114 ; WX 549 ; N rho ; B 50 -230 490 499 ;  
C 115 ; WX 603 ; N sigma ; B 30 -21 588 500 ;  
C 116 ; WX 439 ; N tau ; B 10 -19 418 500 ;  
C 117 ; WX 576 ; N upsilon ; B 7 -18 535 507 ;  
C 118 ; WX 713 ; N omega1 ; B 12 -18 671 583 ;  
C 119 ; WX 686 ; N omega ; B 42 -17 684 500 ;  
C 120 ; WX 493 ; N xi ; B 27 -224 469 766 ;  
C 121 ; WX 686 ; N psi ; B 12 -228 701 500 ;  
C 122 ; WX 494 ; N zeta ; B 60 -225 467 756 ;  
C 123 ; WX 480 ; N braceleft ; B 58 -183 397 673 ;  
C 124 ; WX 200 ; N bar ; B 65 -293 135 707 ;  
C 125 ; WX 480 ; N braceright ; B 79 -183 418 673 ;  
C 126 ; WX 549 ; N similar ; B 17 203 529 307 ;  
C 160 ; WX 750 ; N Euro ; B 20 -12 714 685 ;  
C 161 ; WX 620 ; N Upsilon1 ; B -2 0 610 685 ;  
C 162 ; WX 247 ; N minute ; B 27 459 228 735 ;  
C 163 ; WX 549 ; N lessequal ; B 29 0 526 639 ;  
C 164 ; WX 167 ; N fraction ; B -180 -12 340 677 ;  
C 165 ; WX 713 ; N infinity ; B 26 124 688 404 ;  
C 166 ; WX 500 ; N florin ; B 2 -193 494 686 ;  
C 167 ; WX 753 ; N club ; B 86 -26 660 533 ;  
C 168 ; WX 753 ; N diamond ; B 142 -36 600 550 ;  
C 169 ; WX 753 ; N heart ; B 117 -33 631 532 ;  
C 170 ; WX 753 ; N spade ; B 113 -36 629 548 ;  
C 171 ; WX 1042 ; N arrowboth ; B 24 -15 1024 511 ;  
C 172 ; WX 987 ; N arrowleft ; B 32 -15 942 511 ;  
C 173 ; WX 603 ; N arrowup ; B 45 0 571 910 ;  
C 174 ; WX 987 ; N arrowright ; B 49 -15 959 511 ;  
C 175 ; WX 603 ; N arrowdown ; B 45 -22 571 888 ;  
C 176 ; WX 400 ; N degree ; B 50 385 350 685 ;  
C 177 ; WX 549 ; N plusminus ; B 10 0 539 645 ;  
C 178 ; WX 411 ; N second ; B 20 459 413 737 ;  
C 179 ; WX 549 ; N greaterequal ; B 29 0 526 639 ;  
C 180 ; WX 549 ; N multiply ; B 17 8 533 524 ;  
C 181 ; WX 713 ; N proportional ; B 27 123 639 404 ;  
C 182 ; WX 494 ; N partialdiff ; B 26 -20 462 746 ;  
C 183 ; WX 460 ; N bullet ; B 50 113 410 473 ;  
C 184 ; WX 549 ; N divide ; B 10 71 536 456 ;  
C 185 ; WX 549 ; N notequal ; B 15 -25 540 549 ;  
C 186 ; WX 549 ; N equivalence ; B 14 82 538 443 ;  
C 187 ; WX 549 ; N approxequal ; B 14 135 527 394 ;  
C 188 ; WX 1000 ; N ellipsis ; B 111 -17 889 95 ;  
C 189 ; WX 603 ; N arrowvertex ; B 280 -120 336 1010 ;  
C 190 ; WX 1000 ; N arrowhorizex ; B -60 220 1050 276 ;  
C 191 ; WX 658 ; N carriagereturn ; B 15 -16 602 629 ;  
C 192 ; WX 823 ; N aleph ; B 175 -18 661 658 ;  
C 193 ; WX 686 ; N Ifraktur ; B 10 -53 578 740 ;  
C 194 ; WX 795 ; N Rfraktur ; B 26 -15 759 734 ;

C 195 ; WX 987 ; N weierstrass ; B 159 -211 870 573 ;  
C 196 ; WX 768 ; N circlemultiply ; B 43 -17 733 673 ;  
C 197 ; WX 768 ; N circleplus ; B 43 -15 733 675 ;  
C 198 ; WX 823 ; N emptyset ; B 39 -24 781 719 ;  
C 199 ; WX 768 ; N intersection ; B 40 0 732 509 ;  
C 200 ; WX 768 ; N union ; B 40 -17 732 492 ;  
C 201 ; WX 713 ; N propersuperset ; B 20 0 673 470 ;  
C 202 ; WX 713 ; N reflexsuperset ; B 20 -125 673 470 ;  
C 203 ; WX 713 ; N notsubset ; B 36 -70 690 540 ;  
C 204 ; WX 713 ; N propersubset ; B 37 0 690 470 ;  
C 205 ; WX 713 ; N reflexsubset ; B 37 -125 690 470 ;  
C 206 ; WX 713 ; N element ; B 45 0 505 468 ;  
C 207 ; WX 713 ; N notelement ; B 45 -58 505 555 ;  
C 208 ; WX 768 ; N angle ; B 26 0 738 673 ;  
C 209 ; WX 713 ; N gradient ; B 36 -19 681 718 ;  
C 210 ; WX 790 ; N registerserif ; B 50 -17 740 673 ;  
C 211 ; WX 790 ; N copyrightserif ; B 51 -15 741 675 ;  
C 212 ; WX 890 ; N trademarkserif ; B 18 293 855 673 ;  
C 213 ; WX 823 ; N product ; B 25 -101 803 751 ;  
C 214 ; WX 549 ; N radical ; B 10 -38 515 917 ;  
C 215 ; WX 250 ; N dotmath ; B 69 210 169 310 ;  
C 216 ; WX 713 ; N logicalnot ; B 15 0 680 288 ;  
C 217 ; WX 603 ; N logicaland ; B 23 0 583 454 ;  
C 218 ; WX 603 ; N logicalor ; B 30 0 578 477 ;  
C 219 ; WX 1042 ; N arrowdblboth ; B 27 -20 1023 510 ;  
C 220 ; WX 987 ; N arrowdblleft ; B 30 -15 939 513 ;  
C 221 ; WX 603 ; N arrowdblup ; B 39 2 567 911 ;  
C 222 ; WX 987 ; N arrowdblright ; B 45 -20 954 508 ;  
C 223 ; WX 603 ; N arrowdbldown ; B 44 -19 572 890 ;  
C 224 ; WX 494 ; N lozenge ; B 18 0 466 745 ;  
C 225 ; WX 329 ; N angleleft ; B 25 -198 306 746 ;  
C 226 ; WX 790 ; N registersans ; B 50 -20 740 670 ;  
C 227 ; WX 790 ; N copyrightsans ; B 49 -15 739 675 ;  
C 228 ; WX 786 ; N trademarksans ; B 5 293 725 673 ;  
C 229 ; WX 713 ; N summation ; B 14 -108 695 752 ;  
C 230 ; WX 384 ; N parenlefttp ; B 24 -293 436 926 ;  
C 231 ; WX 384 ; N parenleftex ; B 24 -85 108 925 ;  
C 232 ; WX 384 ; N parenleftbt ; B 24 -293 436 926 ;  
C 233 ; WX 384 ; N bracketlefttp ; B 0 -80 349 926 ;  
C 234 ; WX 384 ; N bracketleftex ; B 0 -79 77 925 ;  
C 235 ; WX 384 ; N bracketleftbt ; B 0 -80 349 926 ;  
C 236 ; WX 494 ; N bracelefttp ; B 209 -85 445 925 ;  
C 237 ; WX 494 ; N braceleftmid ; B 20 -85 284 935 ;  
C 238 ; WX 494 ; N braceleftbt ; B 209 -75 445 935 ;  
C 239 ; WX 494 ; N braceex ; B 209 -85 284 935 ;  
C 241 ; WX 329 ; N angleright ; B 21 -198 302 746 ;  
C 242 ; WX 274 ; N integral ; B 2 -107 291 916 ;  
C 243 ; WX 686 ; N integraltp ; B 308 -88 675 920 ;

C 244 ; WX 686 ; N integralex ; B 308 -88 378 975 ;  
C 245 ; WX 686 ; N integralbt ; B 11 -87 378 921 ;  
C 246 ; WX 384 ; N parenrighttp ; B 54 -293 466 926 ;  
C 247 ; WX 384 ; N parenrightex ; B 382 -85 466 925 ;  
C 248 ; WX 384 ; N parenrightbt ; B 54 -293 466 926 ;  
C 249 ; WX 384 ; N bracketrighttp ; B 22 -80 371 926 ;  
C 250 ; WX 384 ; N bracketrightex ; B 294 -79 371 925 ;  
C 251 ; WX 384 ; N bracketrightbt ; B 22 -80 371 926 ;  
C 252 ; WX 494 ; N bracerighttp ; B 48 -85 284 925 ;  
C 253 ; WX 494 ; N bracerightmid ; B 209 -85 473 935 ;  
C 254 ; WX 494 ; N bracerightbt ; B 48 -75 284 935 ;  
C -1 ; WX 790 ; N apple ; B 56 -3 733 808 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 4.1

Comment Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jun 23 16:28:00 1997

Comment UniqueID 43048

Comment VMusage 41139 52164

FontName Courier-Bold

FullName Courier Bold

FamilyName Courier

Weight Bold

ItalicAngle 0

IsFixedPitch true

CharacterSet ExtendedRoman

FontBBox -113 -250 749 801

UnderlinePosition -100

UnderlineThickness 50

Version 003.000

Notice Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 439

Ascender 629

Descender -157

StdHW 84

StdVW 106

StartCharMetrics 315

C 32 ; WX 600 ; N space ; B 0 0 0 0 ;

C 33 ; WX 600 ; N exclam ; B 202 -15 398 572 ;

C 34 ; WX 600 ; N quotedbl ; B 135 277 465 562 ;

C 35 ; WX 600 ; N numbersign ; B 56 -45 544 651 ;

C 36 ; WX 600 ; N dollar ; B 82 -126 519 666 ;

C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;

C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;

C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;

C 40 ; WX 600 ; N parenleft ; B 219 -102 461 616 ;

C 41 ; WX 600 ; N parenright ; B 139 -102 381 616 ;  
C 42 ; WX 600 ; N asterisk ; B 91 219 509 601 ;  
C 43 ; WX 600 ; N plus ; B 71 39 529 478 ;  
C 44 ; WX 600 ; N comma ; B 123 -111 393 174 ;  
C 45 ; WX 600 ; N hyphen ; B 100 203 500 313 ;  
C 46 ; WX 600 ; N period ; B 192 -15 408 171 ;  
C 47 ; WX 600 ; N slash ; B 98 -77 502 626 ;  
C 48 ; WX 600 ; N zero ; B 87 -15 513 616 ;  
C 49 ; WX 600 ; N one ; B 81 0 539 616 ;  
C 50 ; WX 600 ; N two ; B 61 0 499 616 ;  
C 51 ; WX 600 ; N three ; B 63 -15 501 616 ;  
C 52 ; WX 600 ; N four ; B 53 0 507 616 ;  
C 53 ; WX 600 ; N five ; B 70 -15 521 601 ;  
C 54 ; WX 600 ; N six ; B 90 -15 521 616 ;  
C 55 ; WX 600 ; N seven ; B 55 0 494 601 ;  
C 56 ; WX 600 ; N eight ; B 83 -15 517 616 ;  
C 57 ; WX 600 ; N nine ; B 79 -15 510 616 ;  
C 58 ; WX 600 ; N colon ; B 191 -15 407 425 ;  
C 59 ; WX 600 ; N semicolon ; B 123 -111 408 425 ;  
C 60 ; WX 600 ; N less ; B 66 15 523 501 ;  
C 61 ; WX 600 ; N equal ; B 71 118 529 398 ;  
C 62 ; WX 600 ; N greater ; B 77 15 534 501 ;  
C 63 ; WX 600 ; N question ; B 98 -14 501 580 ;  
C 64 ; WX 600 ; N at ; B 16 -15 584 616 ;  
C 65 ; WX 600 ; N A ; B -9 0 609 562 ;  
C 66 ; WX 600 ; N B ; B 30 0 573 562 ;  
C 67 ; WX 600 ; N C ; B 22 -18 560 580 ;  
C 68 ; WX 600 ; N D ; B 30 0 594 562 ;  
C 69 ; WX 600 ; N E ; B 25 0 560 562 ;  
C 70 ; WX 600 ; N F ; B 39 0 570 562 ;  
C 71 ; WX 600 ; N G ; B 22 -18 594 580 ;  
C 72 ; WX 600 ; N H ; B 20 0 580 562 ;  
C 73 ; WX 600 ; N I ; B 77 0 523 562 ;  
C 74 ; WX 600 ; N J ; B 37 -18 601 562 ;  
C 75 ; WX 600 ; N K ; B 21 0 599 562 ;  
C 76 ; WX 600 ; N L ; B 39 0 578 562 ;  
C 77 ; WX 600 ; N M ; B -2 0 602 562 ;  
C 78 ; WX 600 ; N N ; B 8 -12 610 562 ;  
C 79 ; WX 600 ; N O ; B 22 -18 578 580 ;  
C 80 ; WX 600 ; N P ; B 48 0 559 562 ;  
C 81 ; WX 600 ; N Q ; B 32 -138 578 580 ;  
C 82 ; WX 600 ; N R ; B 24 0 599 562 ;  
C 83 ; WX 600 ; N S ; B 47 -22 553 582 ;  
C 84 ; WX 600 ; N T ; B 21 0 579 562 ;  
C 85 ; WX 600 ; N U ; B 4 -18 596 562 ;  
C 86 ; WX 600 ; N V ; B -13 0 613 562 ;  
C 87 ; WX 600 ; N W ; B -18 0 618 562 ;  
C 88 ; WX 600 ; N X ; B 12 0 588 562 ;

C 89 ; WX 600 ; N Y ; B 12 0 589 562 ;  
C 90 ; WX 600 ; N Z ; B 62 0 539 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 245 -102 475 616 ;  
C 92 ; WX 600 ; N backslash ; B 99 -77 503 626 ;  
C 93 ; WX 600 ; N bracketright ; B 125 -102 355 616 ;  
C 94 ; WX 600 ; N asciicircum ; B 108 250 492 616 ;  
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 178 277 428 562 ;  
C 97 ; WX 600 ; N a ; B 35 -15 570 454 ;  
C 98 ; WX 600 ; N b ; B 0 -15 584 626 ;  
C 99 ; WX 600 ; N c ; B 40 -15 545 459 ;  
C 100 ; WX 600 ; N d ; B 20 -15 591 626 ;  
C 101 ; WX 600 ; N e ; B 40 -15 563 454 ;  
C 102 ; WX 600 ; N f ; B 83 0 547 626 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 30 -146 580 454 ;  
C 104 ; WX 600 ; N h ; B 5 0 592 626 ;  
C 105 ; WX 600 ; N i ; B 77 0 523 658 ;  
C 106 ; WX 600 ; N j ; B 63 -146 440 658 ;  
C 107 ; WX 600 ; N k ; B 20 0 585 626 ;  
C 108 ; WX 600 ; N l ; B 77 0 523 626 ;  
C 109 ; WX 600 ; N m ; B -22 0 626 454 ;  
C 110 ; WX 600 ; N n ; B 18 0 592 454 ;  
C 111 ; WX 600 ; N o ; B 30 -15 570 454 ;  
C 112 ; WX 600 ; N p ; B -1 -142 570 454 ;  
C 113 ; WX 600 ; N q ; B 20 -142 591 454 ;  
C 114 ; WX 600 ; N r ; B 47 0 580 454 ;  
C 115 ; WX 600 ; N s ; B 68 -17 535 459 ;  
C 116 ; WX 600 ; N t ; B 47 -15 532 562 ;  
C 117 ; WX 600 ; N u ; B -1 -15 569 439 ;  
C 118 ; WX 600 ; N v ; B -1 0 601 439 ;  
C 119 ; WX 600 ; N w ; B -18 0 618 439 ;  
C 120 ; WX 600 ; N x ; B 6 0 594 439 ;  
C 121 ; WX 600 ; N y ; B -4 -142 601 439 ;  
C 122 ; WX 600 ; N z ; B 81 0 520 439 ;  
C 123 ; WX 600 ; N braceleft ; B 160 -102 464 616 ;  
C 124 ; WX 600 ; N bar ; B 255 -250 345 750 ;  
C 125 ; WX 600 ; N braceright ; B 136 -102 440 616 ;  
C 126 ; WX 600 ; N asciitilde ; B 71 153 530 356 ;  
C 161 ; WX 600 ; N exclamdown ; B 202 -146 398 449 ;  
C 162 ; WX 600 ; N cent ; B 66 -49 518 614 ;  
C 163 ; WX 600 ; N sterling ; B 72 -28 558 611 ;  
C 164 ; WX 600 ; N fraction ; B 25 -60 576 661 ;  
C 165 ; WX 600 ; N yen ; B 10 0 590 562 ;  
C 166 ; WX 600 ; N florin ; B -30 -131 572 616 ;  
C 167 ; WX 600 ; N section ; B 83 -70 517 580 ;  
C 168 ; WX 600 ; N currency ; B 54 49 546 517 ;  
C 169 ; WX 600 ; N quotesingle ; B 227 277 373 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 71 277 535 562 ;



C 171 ; WX 600 ; N guillemotleft ; B 8 70 553 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 141 70 459 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 141 70 459 446 ;  
C 174 ; WX 600 ; N fi ; B 12 0 593 626 ;  
C 175 ; WX 600 ; N fl ; B 12 0 593 626 ;  
C 177 ; WX 600 ; N endash ; B 65 203 535 313 ;  
C 178 ; WX 600 ; N dagger ; B 106 -70 494 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 106 -70 494 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 196 165 404 351 ;  
C 182 ; WX 600 ; N paragraph ; B 6 -70 576 580 ;  
C 183 ; WX 600 ; N bullet ; B 140 132 460 430 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 175 -142 427 143 ;  
C 185 ; WX 600 ; N quotedblbase ; B 65 -142 529 143 ;  
C 186 ; WX 600 ; N quotedblright ; B 61 277 525 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 47 70 592 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 26 -15 574 116 ;  
C 189 ; WX 600 ; N perthousand ; B -113 -15 713 616 ;  
C 191 ; WX 600 ; N questiondown ; B 99 -146 502 449 ;  
C 193 ; WX 600 ; N grave ; B 132 508 395 661 ;  
C 194 ; WX 600 ; N acute ; B 205 508 468 661 ;  
C 195 ; WX 600 ; N circumflex ; B 103 483 497 657 ;  
C 196 ; WX 600 ; N tilde ; B 89 493 512 636 ;  
C 197 ; WX 600 ; N macron ; B 88 505 512 585 ;  
C 198 ; WX 600 ; N breve ; B 83 468 517 631 ;  
C 199 ; WX 600 ; N dotaccent ; B 230 498 370 638 ;  
C 200 ; WX 600 ; N dieresis ; B 128 498 472 638 ;  
C 202 ; WX 600 ; N ring ; B 198 481 402 678 ;  
C 203 ; WX 600 ; N cedilla ; B 205 -206 387 0 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 68 488 588 661 ;  
C 206 ; WX 600 ; N ogonek ; B 169 -199 400 0 ;  
C 207 ; WX 600 ; N caron ; B 103 493 497 667 ;  
C 208 ; WX 600 ; N emdash ; B -10 203 610 313 ;  
C 225 ; WX 600 ; N AE ; B -29 0 602 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 147 196 453 580 ;  
C 232 ; WX 600 ; N Lslash ; B 39 0 578 562 ;  
C 233 ; WX 600 ; N Oslash ; B 22 -22 578 584 ;  
C 234 ; WX 600 ; N OE ; B -25 0 595 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 147 196 453 580 ;  
C 241 ; WX 600 ; N ae ; B -4 -15 601 454 ;  
C 245 ; WX 600 ; N dotlessi ; B 77 0 523 439 ;  
C 248 ; WX 600 ; N lslash ; B 77 0 523 626 ;  
C 249 ; WX 600 ; N oslash ; B 30 -24 570 463 ;  
C 250 ; WX 600 ; N oe ; B -18 -15 611 454 ;  
C 251 ; WX 600 ; N germandbls ; B 22 -15 596 626 ;  
C -1 ; WX 600 ; N Idieresis ; B 77 0 523 761 ;  
C -1 ; WX 600 ; N eacute ; B 40 -15 563 661 ;  
C -1 ; WX 600 ; N abreve ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B -1 -15 628 661 ;

C -1 ; WX 600 ; N ecaron ; B 40 -15 563 667 ;  
C -1 ; WX 600 ; N Ydieresis ; B 12 0 589 761 ;  
C -1 ; WX 600 ; N divide ; B 71 16 529 500 ;  
C -1 ; WX 600 ; N Yacute ; B 12 0 589 784 ;  
C -1 ; WX 600 ; N Acircumflex ; B -9 0 609 780 ;  
C -1 ; WX 600 ; N aacute ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 4 -18 596 780 ;  
C -1 ; WX 600 ; N yacute ; B -4 -142 601 661 ;  
C -1 ; WX 600 ; N scommaaccent ; B 68 -250 535 459 ;  
C -1 ; WX 600 ; N ecircumflex ; B 40 -15 563 657 ;  
C -1 ; WX 600 ; N Uring ; B 4 -18 596 801 ;  
C -1 ; WX 600 ; N Udieresis ; B 4 -18 596 761 ;  
C -1 ; WX 600 ; N aogonek ; B 35 -199 586 454 ;  
C -1 ; WX 600 ; N Uacute ; B 4 -18 596 784 ;  
C -1 ; WX 600 ; N uogonek ; B -1 -199 585 439 ;  
C -1 ; WX 600 ; N Edieresis ; B 25 0 560 761 ;  
C -1 ; WX 600 ; N Dcroat ; B 30 0 594 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 205 -250 397 -57 ;  
C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N Emacron ; B 25 0 560 708 ;  
C -1 ; WX 600 ; N ccaron ; B 40 -15 545 667 ;  
C -1 ; WX 600 ; N aring ; B 35 -15 570 678 ;  
C -1 ; WX 600 ; N Ncommaaccent ; B 8 -250 610 562 ;  
C -1 ; WX 600 ; N lacute ; B 77 0 523 801 ;  
C -1 ; WX 600 ; N agrave ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N Tcommaaccent ; B 21 -250 579 562 ;  
C -1 ; WX 600 ; N Cacute ; B 22 -18 560 784 ;  
C -1 ; WX 600 ; N atilde ; B 35 -15 570 636 ;  
C -1 ; WX 600 ; N Edotaccent ; B 25 0 560 761 ;  
C -1 ; WX 600 ; N scaron ; B 68 -17 535 667 ;  
C -1 ; WX 600 ; N scedilla ; B 68 -206 535 459 ;  
C -1 ; WX 600 ; N iacute ; B 77 0 523 661 ;  
C -1 ; WX 600 ; N lozenge ; B 66 0 534 740 ;  
C -1 ; WX 600 ; N Rcaron ; B 24 0 599 790 ;  
C -1 ; WX 600 ; N Gcommaaccent ; B 22 -250 594 580 ;  
C -1 ; WX 600 ; N ucircumflex ; B -1 -15 569 657 ;  
C -1 ; WX 600 ; N acircumflex ; B 35 -15 570 657 ;  
C -1 ; WX 600 ; N Amacron ; B -9 0 609 708 ;  
C -1 ; WX 600 ; N rcaron ; B 47 0 580 667 ;  
C -1 ; WX 600 ; N ccedilla ; B 40 -206 545 459 ;  
C -1 ; WX 600 ; N Zdotaccent ; B 62 0 539 761 ;  
C -1 ; WX 600 ; N Thorn ; B 48 0 557 562 ;  
C -1 ; WX 600 ; N Omacron ; B 22 -18 578 708 ;  
C -1 ; WX 600 ; N Racute ; B 24 0 599 784 ;  
C -1 ; WX 600 ; N Sacute ; B 47 -22 553 784 ;  
C -1 ; WX 600 ; N dcaron ; B 20 -15 727 626 ;  
C -1 ; WX 600 ; N Umacron ; B 4 -18 596 708 ;  
C -1 ; WX 600 ; N uring ; B -1 -15 569 678 ;

C -1 ; WX 600 ; N threesuperior ; B 138 222 433 616 ;  
C -1 ; WX 600 ; N Ograve ; B 22 -18 578 784 ;  
C -1 ; WX 600 ; N Agrave ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N Abreve ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N multiply ; B 81 39 520 478 ;  
C -1 ; WX 600 ; N uacute ; B -1 -15 569 661 ;  
C -1 ; WX 600 ; N Tcaron ; B 21 0 579 790 ;  
C -1 ; WX 600 ; N partialdiff ; B 63 -38 537 728 ;  
C -1 ; WX 600 ; N ydieresis ; B -4 -142 601 638 ;  
C -1 ; WX 600 ; N Nacute ; B 8 -12 610 784 ;  
C -1 ; WX 600 ; N icircumflex ; B 73 0 523 657 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 25 0 560 780 ;  
C -1 ; WX 600 ; N adieresis ; B 35 -15 570 638 ;  
C -1 ; WX 600 ; N edieresis ; B 40 -15 563 638 ;  
C -1 ; WX 600 ; N cacute ; B 40 -15 545 661 ;  
C -1 ; WX 600 ; N nacute ; B 18 0 592 661 ;  
C -1 ; WX 600 ; N umacron ; B -1 -15 569 585 ;  
C -1 ; WX 600 ; N Ncaron ; B 8 -12 610 790 ;  
C -1 ; WX 600 ; N Iacute ; B 77 0 523 784 ;  
C -1 ; WX 600 ; N plusminus ; B 71 24 529 515 ;  
C -1 ; WX 600 ; N brokenbar ; B 255 -175 345 675 ;  
C -1 ; WX 600 ; N registered ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N Gbreve ; B 22 -18 594 784 ;  
C -1 ; WX 600 ; N Idotaccent ; B 77 0 523 761 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 586 706 ;  
C -1 ; WX 600 ; N Egrave ; B 25 0 560 784 ;  
C -1 ; WX 600 ; N racute ; B 47 0 580 661 ;  
C -1 ; WX 600 ; N omacron ; B 30 -15 570 585 ;  
C -1 ; WX 600 ; N Zacute ; B 62 0 539 784 ;  
C -1 ; WX 600 ; N Zcaron ; B 62 0 539 790 ;  
C -1 ; WX 600 ; N greaterequal ; B 26 0 523 696 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 594 562 ;  
C -1 ; WX 600 ; N Ccedilla ; B 22 -206 560 580 ;  
C -1 ; WX 600 ; N lcommaaccent ; B 77 -250 523 626 ;  
C -1 ; WX 600 ; N tcaron ; B 47 -15 532 703 ;  
C -1 ; WX 600 ; N eogonek ; B 40 -199 563 454 ;  
C -1 ; WX 600 ; N Uogonek ; B 4 -199 596 562 ;  
C -1 ; WX 600 ; N Aacute ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N Adieresis ; B -9 0 609 761 ;  
C -1 ; WX 600 ; N egrave ; B 40 -15 563 661 ;  
C -1 ; WX 600 ; N zacute ; B 81 0 520 661 ;  
C -1 ; WX 600 ; N iogonek ; B 77 -199 523 658 ;  
C -1 ; WX 600 ; N Oacute ; B 22 -18 578 784 ;  
C -1 ; WX 600 ; N oacute ; B 30 -15 570 661 ;  
C -1 ; WX 600 ; N amacron ; B 35 -15 570 585 ;  
C -1 ; WX 600 ; N sacute ; B 68 -17 535 661 ;  
C -1 ; WX 600 ; N idieresis ; B 77 0 523 618 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 22 -18 578 780 ;

C -1 ; WX 600 ; N Ugrave ; B 4 -18 596 784 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;  
C -1 ; WX 600 ; N thorn ; B -14 -142 570 626 ;  
C -1 ; WX 600 ; N twosuperior ; B 143 230 436 616 ;  
C -1 ; WX 600 ; N Odieresis ; B 22 -18 578 761 ;  
C -1 ; WX 600 ; N mu ; B -1 -142 569 439 ;  
C -1 ; WX 600 ; N igrave ; B 77 0 523 661 ;  
C -1 ; WX 600 ; N ohungarumlaut ; B 30 -15 668 661 ;  
C -1 ; WX 600 ; N Eogonek ; B 25 -199 576 562 ;  
C -1 ; WX 600 ; N dcroat ; B 20 -15 591 626 ;  
C -1 ; WX 600 ; N threequarters ; B -47 -60 648 661 ;  
C -1 ; WX 600 ; N Scedilla ; B 47 -206 553 582 ;  
C -1 ; WX 600 ; N lcaron ; B 77 0 597 626 ;  
C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 599 562 ;  
C -1 ; WX 600 ; N Lacute ; B 39 0 578 784 ;  
C -1 ; WX 600 ; N trademark ; B -9 230 749 562 ;  
C -1 ; WX 600 ; N edotaccent ; B 40 -15 563 638 ;  
C -1 ; WX 600 ; N Igrave ; B 77 0 523 784 ;  
C -1 ; WX 600 ; N Imacron ; B 77 0 523 708 ;  
C -1 ; WX 600 ; N Lcaron ; B 39 0 637 562 ;  
C -1 ; WX 600 ; N onehalf ; B -47 -60 648 661 ;  
C -1 ; WX 600 ; N lessequal ; B 26 0 523 696 ;  
C -1 ; WX 600 ; N ocircumflex ; B 30 -15 570 657 ;  
C -1 ; WX 600 ; N ntilde ; B 18 0 592 636 ;  
C -1 ; WX 600 ; N Uhungarumlaut ; B 4 -18 638 784 ;  
C -1 ; WX 600 ; N Eacute ; B 25 0 560 784 ;  
C -1 ; WX 600 ; N emacron ; B 40 -15 563 585 ;  
C -1 ; WX 600 ; N gbreve ; B 30 -146 580 661 ;  
C -1 ; WX 600 ; N onequarter ; B -56 -60 656 661 ;  
C -1 ; WX 600 ; N Scaron ; B 47 -22 553 790 ;  
C -1 ; WX 600 ; N Scommaaccent ; B 47 -250 553 582 ;  
C -1 ; WX 600 ; N Ohungarumlaut ; B 22 -18 628 784 ;  
C -1 ; WX 600 ; N degree ; B 86 243 474 616 ;  
C -1 ; WX 600 ; N ograve ; B 30 -15 570 661 ;  
C -1 ; WX 600 ; N Ccaron ; B 22 -18 560 790 ;  
C -1 ; WX 600 ; N ugrave ; B -1 -15 569 661 ;  
C -1 ; WX 600 ; N radical ; B -19 -104 473 778 ;  
C -1 ; WX 600 ; N Dcaron ; B 30 0 594 790 ;  
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 580 454 ;  
C -1 ; WX 600 ; N Ntilde ; B 8 -12 610 759 ;  
C -1 ; WX 600 ; N otilde ; B 30 -15 570 636 ;  
C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 599 562 ;  
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 578 562 ;  
C -1 ; WX 600 ; N Atilde ; B -9 0 609 759 ;  
C -1 ; WX 600 ; N Aogonek ; B -9 -199 625 562 ;  
C -1 ; WX 600 ; N Aring ; B -9 0 609 801 ;  
C -1 ; WX 600 ; N Otilde ; B 22 -18 578 759 ;  
C -1 ; WX 600 ; N zdotaccent ; B 81 0 520 638 ;

C -1 ; WX 600 ; N Ecaron ; B 25 0 560 790 ;  
C -1 ; WX 600 ; N Iogonek ; B 77 -199 523 562 ;  
C -1 ; WX 600 ; N kcommaaccent ; B 20 -250 585 626 ;  
C -1 ; WX 600 ; N minus ; B 71 203 529 313 ;  
C -1 ; WX 600 ; N Icircumflex ; B 77 0 523 780 ;  
C -1 ; WX 600 ; N ncaron ; B 18 0 592 667 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 47 -250 532 562 ;  
C -1 ; WX 600 ; N logicalnot ; B 71 103 529 413 ;  
C -1 ; WX 600 ; N odieresis ; B 30 -15 570 638 ;  
C -1 ; WX 600 ; N udieresis ; B -1 -15 569 638 ;  
C -1 ; WX 600 ; N notequal ; B 12 -47 537 563 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 30 -146 580 714 ;  
C -1 ; WX 600 ; N eth ; B 58 -27 543 626 ;  
C -1 ; WX 600 ; N zcaron ; B 81 0 520 667 ;  
C -1 ; WX 600 ; N ncommaaccent ; B 18 -250 592 454 ;  
C -1 ; WX 600 ; N onesuperior ; B 153 230 447 616 ;  
C -1 ; WX 600 ; N imacron ; B 77 0 523 585 ;  
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 13:04:06 1997

Comment UniqueID 43066

Comment VMusage 45874 56899

FontName Times-BoldItalic

FullName Times Bold Italic

FamilyName Times

Weight Bold

ItalicAngle -15

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -200 -218 996 921

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

Notice Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved. Times is a trademark of Linotype-Hell AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 669

XHeight 462

Ascender 683

Descender -217

StdHW 42

StdVW 121

StartCharMetrics 315

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 389 ; N exclam ; B 67 -13 370 684 ;

C 34 ; WX 555 ; N quotedbl ; B 136 398 536 685 ;  
C 35 ; WX 500 ; N numbersign ; B -33 0 533 700 ;  
C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;  
C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;  
C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;  
C 39 ; WX 333 ; N quoteright ; B 98 369 302 685 ;  
C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;  
C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;  
C 42 ; WX 500 ; N asterisk ; B 65 249 456 685 ;  
C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;  
C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;  
C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;  
C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;  
C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;  
C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;  
C 49 ; WX 500 ; N one ; B 5 0 419 683 ;  
C 50 ; WX 500 ; N two ; B -27 0 446 683 ;  
C 51 ; WX 500 ; N three ; B -15 -13 450 683 ;  
C 52 ; WX 500 ; N four ; B -15 0 503 683 ;  
C 53 ; WX 500 ; N five ; B -11 -13 487 669 ;  
C 54 ; WX 500 ; N six ; B 23 -15 509 679 ;  
C 55 ; WX 500 ; N seven ; B 52 0 525 669 ;  
C 56 ; WX 500 ; N eight ; B 3 -13 476 683 ;  
C 57 ; WX 500 ; N nine ; B -12 -10 475 683 ;  
C 58 ; WX 333 ; N colon ; B 23 -13 264 459 ;  
C 59 ; WX 333 ; N semicolon ; B -25 -183 264 459 ;  
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;  
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;  
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;  
C 63 ; WX 500 ; N question ; B 79 -13 470 684 ;  
C 64 ; WX 832 ; N at ; B 63 -18 770 685 ;  
C 65 ; WX 667 ; N A ; B -67 0 593 683 ;  
C 66 ; WX 667 ; N B ; B -24 0 624 669 ;  
C 67 ; WX 667 ; N C ; B 32 -18 677 685 ;  
C 68 ; WX 722 ; N D ; B -46 0 685 669 ;  
C 69 ; WX 667 ; N E ; B -27 0 653 669 ;  
C 70 ; WX 667 ; N F ; B -13 0 660 669 ;  
C 71 ; WX 722 ; N G ; B 21 -18 706 685 ;  
C 72 ; WX 778 ; N H ; B -24 0 799 669 ;  
C 73 ; WX 389 ; N I ; B -32 0 406 669 ;  
C 74 ; WX 500 ; N J ; B -46 -99 524 669 ;  
C 75 ; WX 667 ; N K ; B -21 0 702 669 ;  
C 76 ; WX 611 ; N L ; B -22 0 590 669 ;  
C 77 ; WX 889 ; N M ; B -29 -12 917 669 ;  
C 78 ; WX 722 ; N N ; B -27 -15 748 669 ;  
C 79 ; WX 722 ; N O ; B 27 -18 691 685 ;  
C 80 ; WX 611 ; N P ; B -27 0 613 669 ;  
C 81 ; WX 722 ; N Q ; B 27 -208 691 685 ;

C 82 ; WX 667 ; N R ; B -29 0 623 669 ;  
C 83 ; WX 556 ; N S ; B 2 -18 526 685 ;  
C 84 ; WX 611 ; N T ; B 50 0 650 669 ;  
C 85 ; WX 722 ; N U ; B 67 -18 744 669 ;  
C 86 ; WX 667 ; N V ; B 65 -18 715 669 ;  
C 87 ; WX 889 ; N W ; B 65 -18 940 669 ;  
C 88 ; WX 667 ; N X ; B -24 0 694 669 ;  
C 89 ; WX 611 ; N Y ; B 73 0 659 669 ;  
C 90 ; WX 611 ; N Z ; B -11 0 590 669 ;  
C 91 ; WX 333 ; N bracketleft ; B -37 -159 362 674 ;  
C 92 ; WX 278 ; N backslash ; B -1 -18 279 685 ;  
C 93 ; WX 333 ; N bracketright ; B -56 -157 343 674 ;  
C 94 ; WX 570 ; N asciicircum ; B 67 304 503 669 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 128 369 332 685 ;  
C 97 ; WX 500 ; N a ; B -21 -14 455 462 ;  
C 98 ; WX 500 ; N b ; B -14 -13 444 699 ;  
C 99 ; WX 444 ; N c ; B -5 -13 392 462 ;  
C 100 ; WX 500 ; N d ; B -21 -13 517 699 ;  
C 101 ; WX 444 ; N e ; B 5 -13 398 462 ;  
C 102 ; WX 333 ; N f ; B -169 -205 446 698 ; L i f i ; L l f l ;  
C 103 ; WX 500 ; N g ; B -52 -203 478 462 ;  
C 104 ; WX 556 ; N h ; B -13 -9 498 699 ;  
C 105 ; WX 278 ; N i ; B 2 -9 263 684 ;  
C 106 ; WX 278 ; N j ; B -189 -207 279 684 ;  
C 107 ; WX 500 ; N k ; B -23 -8 483 699 ;  
C 108 ; WX 278 ; N l ; B 2 -9 290 699 ;  
C 109 ; WX 778 ; N m ; B -14 -9 722 462 ;  
C 110 ; WX 556 ; N n ; B -6 -9 493 462 ;  
C 111 ; WX 500 ; N o ; B -3 -13 441 462 ;  
C 112 ; WX 500 ; N p ; B -120 -205 446 462 ;  
C 113 ; WX 500 ; N q ; B 1 -205 471 462 ;  
C 114 ; WX 389 ; N r ; B -21 0 389 462 ;  
C 115 ; WX 389 ; N s ; B -19 -13 333 462 ;  
C 116 ; WX 278 ; N t ; B -11 -9 281 594 ;  
C 117 ; WX 556 ; N u ; B 15 -9 492 462 ;  
C 118 ; WX 444 ; N v ; B 16 -13 401 462 ;  
C 119 ; WX 667 ; N w ; B 16 -13 614 462 ;  
C 120 ; WX 500 ; N x ; B -46 -13 469 462 ;  
C 121 ; WX 444 ; N y ; B -94 -205 392 462 ;  
C 122 ; WX 389 ; N z ; B -43 -78 368 449 ;  
C 123 ; WX 348 ; N braceleft ; B 5 -187 436 686 ;  
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;  
C 125 ; WX 348 ; N braceright ; B -129 -187 302 686 ;  
C 126 ; WX 570 ; N asciitilde ; B 54 173 516 333 ;  
C 161 ; WX 389 ; N exclamdown ; B 19 -205 322 492 ;  
C 162 ; WX 500 ; N cent ; B 42 -143 439 576 ;  
C 163 ; WX 500 ; N sterling ; B -32 -12 510 683 ;

C 164 ; WX 167 ; N fraction ; B -169 -14 324 683 ;  
C 165 ; WX 500 ; N yen ; B 33 0 628 669 ;  
C 166 ; WX 500 ; N florin ; B -87 -156 537 707 ;  
C 167 ; WX 500 ; N section ; B 36 -143 459 685 ;  
C 168 ; WX 500 ; N currency ; B -26 34 526 586 ;  
C 169 ; WX 278 ; N quotesingle ; B 128 398 268 685 ;  
C 170 ; WX 500 ; N quotedblleft ; B 53 369 513 685 ;  
C 171 ; WX 500 ; N guillemotleft ; B 12 32 468 415 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 32 32 303 415 ;  
C 173 ; WX 333 ; N guilsinglright ; B 10 32 281 415 ;  
C 174 ; WX 556 ; N fi ; B -188 -205 514 703 ;  
C 175 ; WX 556 ; N fl ; B -186 -205 553 704 ;  
C 177 ; WX 500 ; N endash ; B -40 178 477 269 ;  
C 178 ; WX 500 ; N dagger ; B 91 -145 494 685 ;  
C 179 ; WX 500 ; N daggerdbl ; B 10 -139 493 685 ;  
C 180 ; WX 250 ; N periodcentered ; B 51 257 199 405 ;  
C 182 ; WX 500 ; N paragraph ; B -57 -193 562 669 ;  
C 183 ; WX 350 ; N bullet ; B 0 175 350 525 ;  
C 184 ; WX 333 ; N quotesinglbase ; B -5 -182 199 134 ;  
C 185 ; WX 500 ; N quotedblbase ; B -57 -182 403 134 ;  
C 186 ; WX 500 ; N quotedblright ; B 53 369 513 685 ;  
C 187 ; WX 500 ; N guillemotright ; B 12 32 468 415 ;  
C 188 ; WX 1000 ; N ellipsis ; B 40 -13 852 135 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -29 996 706 ;  
C 191 ; WX 500 ; N questiondown ; B 30 -205 421 492 ;  
C 193 ; WX 333 ; N grave ; B 85 516 297 697 ;  
C 194 ; WX 333 ; N acute ; B 139 516 379 697 ;  
C 195 ; WX 333 ; N circumflex ; B 40 516 367 690 ;  
C 196 ; WX 333 ; N tilde ; B 48 536 407 655 ;  
C 197 ; WX 333 ; N macron ; B 51 553 393 623 ;  
C 198 ; WX 333 ; N breve ; B 71 516 387 678 ;  
C 199 ; WX 333 ; N dotaccent ; B 163 550 298 684 ;  
C 200 ; WX 333 ; N dieresis ; B 55 550 402 684 ;  
C 202 ; WX 333 ; N ring ; B 127 516 340 729 ;  
C 203 ; WX 333 ; N cedilla ; B -80 -218 156 5 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 69 516 498 697 ;  
C 206 ; WX 333 ; N ogonek ; B 15 -183 244 34 ;  
C 207 ; WX 333 ; N caron ; B 79 516 411 690 ;  
C 208 ; WX 1000 ; N emdash ; B -40 178 977 269 ;  
C 225 ; WX 944 ; N AE ; B -64 0 918 669 ;  
C 227 ; WX 266 ; N ordfeminine ; B 16 399 330 685 ;  
C 232 ; WX 611 ; N Lslash ; B -22 0 590 669 ;  
C 233 ; WX 722 ; N Oslash ; B 27 -125 691 764 ;  
C 234 ; WX 944 ; N OE ; B 23 -8 946 677 ;  
C 235 ; WX 300 ; N ordmasculine ; B 56 400 347 685 ;  
C 241 ; WX 722 ; N ae ; B -5 -13 673 462 ;  
C 245 ; WX 278 ; N dotlessi ; B 2 -9 238 462 ;  
C 248 ; WX 278 ; N lslash ; B -7 -9 307 699 ;



C 249 ; WX 500 ; N oslash ; B -3 -119 441 560 ;  
C 250 ; WX 722 ; N oe ; B 6 -13 674 462 ;  
C 251 ; WX 500 ; N germandbls ; B -200 -200 473 705 ;  
C -1 ; WX 389 ; N Idieresis ; B -32 0 450 862 ;  
C -1 ; WX 444 ; N eacute ; B 5 -13 435 697 ;  
C -1 ; WX 500 ; N abreve ; B -21 -14 471 678 ;  
C -1 ; WX 556 ; N uhungarumlaut ; B 15 -9 610 697 ;  
C -1 ; WX 444 ; N ecaron ; B 5 -13 467 690 ;  
C -1 ; WX 611 ; N Ydieresis ; B 73 0 659 862 ;  
C -1 ; WX 570 ; N divide ; B 33 -29 537 535 ;  
C -1 ; WX 611 ; N Yacute ; B 73 0 659 904 ;  
C -1 ; WX 667 ; N Acircumflex ; B -67 0 593 897 ;  
C -1 ; WX 500 ; N aacute ; B -21 -14 463 697 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 67 -18 744 897 ;  
C -1 ; WX 444 ; N yacute ; B -94 -205 435 697 ;  
C -1 ; WX 389 ; N scommaaccent ; B -19 -218 333 462 ;  
C -1 ; WX 444 ; N ecircumflex ; B 5 -13 423 690 ;  
C -1 ; WX 722 ; N Uring ; B 67 -18 744 921 ;  
C -1 ; WX 722 ; N Udieresis ; B 67 -18 744 862 ;  
C -1 ; WX 500 ; N aogonek ; B -21 -183 455 462 ;  
C -1 ; WX 722 ; N Uacute ; B 67 -18 744 904 ;  
C -1 ; WX 556 ; N uogonek ; B 15 -183 492 462 ;  
C -1 ; WX 667 ; N Edieresis ; B -27 0 653 862 ;  
C -1 ; WX 722 ; N Dcroat ; B -31 0 700 669 ;  
C -1 ; WX 250 ; N commaaccent ; B -36 -218 131 -50 ;  
C -1 ; WX 747 ; N copyright ; B 30 -18 718 685 ;  
C -1 ; WX 667 ; N Emacron ; B -27 0 653 830 ;  
C -1 ; WX 444 ; N ccaron ; B -5 -13 467 690 ;  
C -1 ; WX 500 ; N aring ; B -21 -14 455 729 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B -27 -218 748 669 ;  
C -1 ; WX 278 ; N lacute ; B 2 -9 392 904 ;  
C -1 ; WX 500 ; N agrave ; B -21 -14 455 697 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 50 -218 650 669 ;  
C -1 ; WX 667 ; N Cacute ; B 32 -18 677 904 ;  
C -1 ; WX 500 ; N atilde ; B -21 -14 491 655 ;  
C -1 ; WX 667 ; N Edotaccent ; B -27 0 653 862 ;  
C -1 ; WX 389 ; N scaron ; B -19 -13 424 690 ;  
C -1 ; WX 389 ; N scedilla ; B -19 -218 333 462 ;  
C -1 ; WX 278 ; N iacute ; B 2 -9 352 697 ;  
C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;  
C -1 ; WX 667 ; N Rcaron ; B -29 0 623 897 ;  
C -1 ; WX 722 ; N Gcommaaccent ; B 21 -218 706 685 ;  
C -1 ; WX 556 ; N ucircumflex ; B 15 -9 492 690 ;  
C -1 ; WX 500 ; N acircumflex ; B -21 -14 455 690 ;  
C -1 ; WX 667 ; N Amacron ; B -67 0 593 830 ;  
C -1 ; WX 389 ; N rcaron ; B -21 0 424 690 ;  
C -1 ; WX 444 ; N ccedilla ; B -5 -218 392 462 ;  
C -1 ; WX 611 ; N Zdotaccent ; B -11 0 590 862 ;

C -1 ; WX 611 ; N Thorn ; B -27 0 573 669 ;  
C -1 ; WX 722 ; N Omacron ; B 27 -18 691 830 ;  
C -1 ; WX 667 ; N Racute ; B -29 0 623 904 ;  
C -1 ; WX 556 ; N Sacute ; B 2 -18 531 904 ;  
C -1 ; WX 608 ; N dcaron ; B -21 -13 675 708 ;  
C -1 ; WX 722 ; N Umacron ; B 67 -18 744 830 ;  
C -1 ; WX 556 ; N uring ; B 15 -9 492 729 ;  
C -1 ; WX 300 ; N threesuperior ; B 17 265 321 683 ;  
C -1 ; WX 722 ; N Ograve ; B 27 -18 691 904 ;  
C -1 ; WX 667 ; N Agrave ; B -67 0 593 904 ;  
C -1 ; WX 667 ; N Abreve ; B -67 0 593 885 ;  
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;  
C -1 ; WX 556 ; N uacute ; B 15 -9 492 697 ;  
C -1 ; WX 611 ; N Tcaron ; B 50 0 650 897 ;  
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;  
C -1 ; WX 444 ; N ydieresis ; B -94 -205 443 655 ;  
C -1 ; WX 722 ; N Nacute ; B -27 -15 748 904 ;  
C -1 ; WX 278 ; N icircumflex ; B -3 -9 324 690 ;  
C -1 ; WX 667 ; N Ecircumflex ; B -27 0 653 897 ;  
C -1 ; WX 500 ; N adieresis ; B -21 -14 476 655 ;  
C -1 ; WX 444 ; N edieresis ; B 5 -13 448 655 ;  
C -1 ; WX 444 ; N cacute ; B -5 -13 435 697 ;  
C -1 ; WX 556 ; N nacute ; B -6 -9 493 697 ;  
C -1 ; WX 556 ; N umacron ; B 15 -9 492 623 ;  
C -1 ; WX 722 ; N Ncaron ; B -27 -15 748 897 ;  
C -1 ; WX 389 ; N Iacute ; B -32 0 432 904 ;  
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;  
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;  
C -1 ; WX 747 ; N registered ; B 30 -18 718 685 ;  
C -1 ; WX 722 ; N Gbreve ; B 21 -18 706 885 ;  
C -1 ; WX 389 ; N Idotaccent ; B -32 0 406 862 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;  
C -1 ; WX 667 ; N Egrave ; B -27 0 653 904 ;  
C -1 ; WX 389 ; N racute ; B -21 0 407 697 ;  
C -1 ; WX 500 ; N omacron ; B -3 -13 462 623 ;  
C -1 ; WX 611 ; N Zacute ; B -11 0 590 904 ;  
C -1 ; WX 611 ; N Zcaron ; B -11 0 590 897 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;  
C -1 ; WX 722 ; N Eth ; B -31 0 700 669 ;  
C -1 ; WX 667 ; N Ccedilla ; B 32 -218 677 685 ;  
C -1 ; WX 278 ; N lcommaaccent ; B -42 -218 290 699 ;  
C -1 ; WX 366 ; N tcaron ; B -11 -9 434 754 ;  
C -1 ; WX 444 ; N eogonek ; B 5 -183 398 462 ;  
C -1 ; WX 722 ; N Uogonek ; B 67 -183 744 669 ;  
C -1 ; WX 667 ; N Aacute ; B -67 0 593 904 ;  
C -1 ; WX 667 ; N Adieresis ; B -67 0 593 862 ;  
C -1 ; WX 444 ; N egrave ; B 5 -13 398 697 ;  
C -1 ; WX 389 ; N zacute ; B -43 -78 407 697 ;

C -1 ; WX 278 ; N iogonek ; B -20 -183 263 684 ;  
C -1 ; WX 722 ; N Oacute ; B 27 -18 691 904 ;  
C -1 ; WX 500 ; N oacute ; B -3 -13 463 697 ;  
C -1 ; WX 500 ; N amacron ; B -21 -14 467 623 ;  
C -1 ; WX 389 ; N sacute ; B -19 -13 407 697 ;  
C -1 ; WX 278 ; N idieresis ; B 2 -9 364 655 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 27 -18 691 897 ;  
C -1 ; WX 722 ; N Ugrave ; B 67 -18 744 904 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 500 ; N thorn ; B -120 -205 446 699 ;  
C -1 ; WX 300 ; N twosuperior ; B 2 274 313 683 ;  
C -1 ; WX 722 ; N Odieresis ; B 27 -18 691 862 ;  
C -1 ; WX 576 ; N mu ; B -60 -207 516 449 ;  
C -1 ; WX 278 ; N igrave ; B 2 -9 259 697 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B -3 -13 582 697 ;  
C -1 ; WX 667 ; N Eogonek ; B -27 -183 653 669 ;  
C -1 ; WX 500 ; N dcroat ; B -21 -13 552 699 ;  
C -1 ; WX 750 ; N threequarters ; B 7 -14 726 683 ;  
C -1 ; WX 556 ; N Scedilla ; B 2 -218 526 685 ;  
C -1 ; WX 382 ; N lcaron ; B 2 -9 448 708 ;  
C -1 ; WX 667 ; N Kcommaaccent ; B -21 -218 702 669 ;  
C -1 ; WX 611 ; N Lacute ; B -22 0 590 904 ;  
C -1 ; WX 1000 ; N trademark ; B 32 263 968 669 ;  
C -1 ; WX 444 ; N edotaccent ; B 5 -13 398 655 ;  
C -1 ; WX 389 ; N Igrave ; B -32 0 406 904 ;  
C -1 ; WX 389 ; N Imacron ; B -32 0 461 830 ;  
C -1 ; WX 611 ; N Lcaron ; B -22 0 671 718 ;  
C -1 ; WX 750 ; N onehalf ; B -9 -14 723 683 ;  
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;  
C -1 ; WX 500 ; N ocircumflex ; B -3 -13 451 690 ;  
C -1 ; WX 556 ; N ntilde ; B -6 -9 504 655 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 67 -18 744 904 ;  
C -1 ; WX 667 ; N Eacute ; B -27 0 653 904 ;  
C -1 ; WX 444 ; N emacron ; B 5 -13 439 623 ;  
C -1 ; WX 500 ; N gbreve ; B -52 -203 478 678 ;  
C -1 ; WX 750 ; N onequarter ; B 7 -14 721 683 ;  
C -1 ; WX 556 ; N Scaron ; B 2 -18 553 897 ;  
C -1 ; WX 556 ; N Scommaaccent ; B 2 -218 526 685 ;  
C -1 ; WX 722 ; N Ohungarumlaut ; B 27 -18 723 904 ;  
C -1 ; WX 400 ; N degree ; B 83 397 369 683 ;  
C -1 ; WX 500 ; N ograve ; B -3 -13 441 697 ;  
C -1 ; WX 667 ; N Ccaron ; B 32 -18 677 897 ;  
C -1 ; WX 556 ; N igrave ; B 15 -9 492 697 ;  
C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;  
C -1 ; WX 722 ; N Dcaron ; B -46 0 685 897 ;  
C -1 ; WX 389 ; N rcommaaccent ; B -67 -218 389 462 ;  
C -1 ; WX 722 ; N Ntilde ; B -27 -15 748 862 ;  
C -1 ; WX 500 ; N otilde ; B -3 -13 491 655 ;

C -1 ; WX 667 ; N Rcommaaccent ; B -29 -218 623 669 ;  
C -1 ; WX 611 ; N Lcommaaccent ; B -22 -218 590 669 ;  
C -1 ; WX 667 ; N Atilde ; B -67 0 593 862 ;  
C -1 ; WX 667 ; N Aogonek ; B -67 -183 604 683 ;  
C -1 ; WX 667 ; N Aring ; B -67 0 593 921 ;  
C -1 ; WX 722 ; N Otilde ; B 27 -18 691 862 ;  
C -1 ; WX 389 ; N zdotaccent ; B -43 -78 368 655 ;  
C -1 ; WX 667 ; N Ecaron ; B -27 0 653 897 ;  
C -1 ; WX 389 ; N Iogonek ; B -32 -183 406 669 ;  
C -1 ; WX 500 ; N kcommaaccent ; B -23 -218 483 699 ;  
C -1 ; WX 606 ; N minus ; B 51 209 555 297 ;  
C -1 ; WX 389 ; N Icircumflex ; B -32 0 450 897 ;  
C -1 ; WX 556 ; N ncaron ; B -6 -9 523 690 ;  
C -1 ; WX 278 ; N tcommaaccent ; B -62 -218 281 594 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 108 555 399 ;  
C -1 ; WX 500 ; N odieresis ; B -3 -13 471 655 ;  
C -1 ; WX 556 ; N udieresis ; B 15 -9 499 655 ;  
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;  
C -1 ; WX 500 ; N gcommaaccent ; B -52 -203 478 767 ;  
C -1 ; WX 500 ; N eth ; B -3 -13 454 699 ;  
C -1 ; WX 389 ; N zcaron ; B -43 -78 424 690 ;  
C -1 ; WX 556 ; N ncommaaccent ; B -6 -218 493 462 ;  
C -1 ; WX 300 ; N onesuperior ; B 30 274 301 683 ;  
C -1 ; WX 278 ; N imacron ; B 2 -9 294 623 ;  
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2038

KPX A C -65

KPX A Cacute -65

KPX A Ccaron -65

KPX A Ccedilla -65

KPX A G -60

KPX A Gbreve -60

KPX A Gcommaaccent -60

KPX A O -50

KPX A Oacute -50

KPX A Ocircumflex -50

KPX A Odieresis -50

KPX A Ograve -50

KPX A Ohungarumlaut -50

KPX A Omacron -50

KPX A Oslash -50

KPX A Otilde -50

KPX A Q -55

KPX A T -55

KPX A Tcaron -55

KPX A Tcommaaccent -55

KPX A U -50  
KPX A Uacute -50  
KPX A Ucircumflex -50  
KPX A Udieresis -50  
KPX A Ugrave -50  
KPX A Uhungarumlaut -50  
KPX A Umacron -50  
KPX A Uogonek -50  
KPX A Uring -50  
KPX A V -95  
KPX A W -100  
KPX A Y -70  
KPX A Yacute -70  
KPX A Ydieresis -70  
KPX A quoteright -74  
KPX A u -30  
KPX A uacute -30  
KPX A ucircumflex -30  
KPX A udieresis -30  
KPX A ugrave -30  
KPX A uhungarumlaut -30  
KPX A umacron -30  
KPX A uogonek -30  
KPX A uring -30  
KPX A v -74  
KPX A w -74  
KPX A y -74  
KPX A yacute -74  
KPX A ydieresis -74  
KPX Aacute C -65  
KPX Aacute Cacute -65  
KPX Aacute Ccaron -65  
KPX Aacute Ccedilla -65  
KPX Aacute G -60  
KPX Aacute Gbreve -60  
KPX Aacute Gcommaaccent -60  
KPX Aacute O -50  
KPX Aacute Oacute -50  
KPX Aacute Ocircumflex -50  
KPX Aacute Odieresis -50  
KPX Aacute Ograve -50  
KPX Aacute Ohungarumlaut -50  
KPX Aacute Omacron -50  
KPX Aacute Oslash -50  
KPX Aacute Otilde -50  
KPX Aacute Q -55  
KPX Aacute T -55  
KPX Aacute Tcaron -55

KPX Aacute Tcommaaccent -55  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50  
KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -95  
KPX Aacute W -100  
KPX Aacute Y -70  
KPX Aacute Yacute -70  
KPX Aacute Ydieresis -70  
KPX Aacute quoteright -74  
KPX Aacute u -30  
KPX Aacute uacute -30  
KPX Aacute ucircumflex -30  
KPX Aacute udieresis -30  
KPX Aacute ugrave -30  
KPX Aacute uhungarumlaut -30  
KPX Aacute umacron -30  
KPX Aacute uogonek -30  
KPX Aacute uring -30  
KPX Aacute v -74  
KPX Aacute w -74  
KPX Aacute y -74  
KPX Aacute yacute -74  
KPX Aacute ydieresis -74  
KPX Abreve C -65  
KPX Abreve Cacute -65  
KPX Abreve Ccaron -65  
KPX Abreve Ccedilla -65  
KPX Abreve G -60  
KPX Abreve Gbreve -60  
KPX Abreve Gcommaaccent -60  
KPX Abreve O -50  
KPX Abreve Oacute -50  
KPX Abreve Ocircumflex -50  
KPX Abreve Odieresis -50  
KPX Abreve Ograve -50  
KPX Abreve Ohungarumlaut -50  
KPX Abreve Omacron -50  
KPX Abreve Oslash -50  
KPX Abreve Otilde -50  
KPX Abreve Q -55  
KPX Abreve T -55

KPX Abreve Tcaron -55  
KPX Abreve Tcommaaccent -55  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50  
KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -95  
KPX Abreve W -100  
KPX Abreve Y -70  
KPX Abreve Yacute -70  
KPX Abreve Ydieresis -70  
KPX Abreve quoteright -74  
KPX Abreve u -30  
KPX Abreve uacute -30  
KPX Abreve ucircumflex -30  
KPX Abreve udieresis -30  
KPX Abreve ugrave -30  
KPX Abreve uhungarumlaut -30  
KPX Abreve umacron -30  
KPX Abreve uogonek -30  
KPX Abreve uring -30  
KPX Abreve v -74  
KPX Abreve w -74  
KPX Abreve y -74  
KPX Abreve yacute -74  
KPX Abreve ydieresis -74  
KPX Acircumflex C -65  
KPX Acircumflex Cacute -65  
KPX Acircumflex Ccaron -65  
KPX Acircumflex Ccedilla -65  
KPX Acircumflex G -60  
KPX Acircumflex Gbreve -60  
KPX Acircumflex Gcommaaccent -60  
KPX Acircumflex O -50  
KPX Acircumflex Oacute -50  
KPX Acircumflex Ocircumflex -50  
KPX Acircumflex Odieresis -50  
KPX Acircumflex Ograve -50  
KPX Acircumflex Ohungarumlaut -50  
KPX Acircumflex Omacron -50  
KPX Acircumflex Oslash -50  
KPX Acircumflex Otilde -50  
KPX Acircumflex Q -55

KPX Acircumflex T -55  
KPX Acircumflex Tcaron -55  
KPX Acircumflex Tcommaaccent -55  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50  
KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50  
KPX Acircumflex V -95  
KPX Acircumflex W -100  
KPX Acircumflex Y -70  
KPX Acircumflex Yacute -70  
KPX Acircumflex Ydieresis -70  
KPX Acircumflex quoteright -74  
KPX Acircumflex u -30  
KPX Acircumflex uacute -30  
KPX Acircumflex ucircumflex -30  
KPX Acircumflex udieresis -30  
KPX Acircumflex ugrave -30  
KPX Acircumflex uhungarumlaut -30  
KPX Acircumflex umacron -30  
KPX Acircumflex uogonek -30  
KPX Acircumflex uring -30  
KPX Acircumflex v -74  
KPX Acircumflex w -74  
KPX Acircumflex y -74  
KPX Acircumflex yacute -74  
KPX Acircumflex ydieresis -74  
KPX Adieresis C -65  
KPX Adieresis Cacute -65  
KPX Adieresis Ccaron -65  
KPX Adieresis Ccedilla -65  
KPX Adieresis G -60  
KPX Adieresis Gbreve -60  
KPX Adieresis Gcommaaccent -60  
KPX Adieresis O -50  
KPX Adieresis Oacute -50  
KPX Adieresis Ocircumflex -50  
KPX Adieresis Odieresis -50  
KPX Adieresis Ograve -50  
KPX Adieresis Ohungarumlaut -50  
KPX Adieresis Omacron -50  
KPX Adieresis Oslash -50  
KPX Adieresis Otilde -50



KPX Adieresis Q -55  
KPX Adieresis T -55  
KPX Adieresis Tcaron -55  
KPX Adieresis Tcommaaccent -55  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50  
KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50  
KPX Adieresis V -95  
KPX Adieresis W -100  
KPX Adieresis Y -70  
KPX Adieresis Yacute -70  
KPX Adieresis Ydieresis -70  
KPX Adieresis quoteright -74  
KPX Adieresis u -30  
KPX Adieresis uacute -30  
KPX Adieresis ucircumflex -30  
KPX Adieresis udieresis -30  
KPX Adieresis ugrave -30  
KPX Adieresis uhungarumlaut -30  
KPX Adieresis umacron -30  
KPX Adieresis uogonek -30  
KPX Adieresis uring -30  
KPX Adieresis v -74  
KPX Adieresis w -74  
KPX Adieresis y -74  
KPX Adieresis yacute -74  
KPX Adieresis ydieresis -74  
KPX Agrave C -65  
KPX Agrave Cacute -65  
KPX Agrave Ccaron -65  
KPX Agrave Ccedilla -65  
KPX Agrave G -60  
KPX Agrave Gbreve -60  
KPX Agrave Gcommaaccent -60  
KPX Agrave O -50  
KPX Agrave Oacute -50  
KPX Agrave Ocircumflex -50  
KPX Agrave Odieresis -50  
KPX Agrave Ograve -50  
KPX Agrave Ohungarumlaut -50  
KPX Agrave Omacron -50  
KPX Agrave Oslash -50

KPX Agrave Otilde -50  
KPX Agrave Q -55  
KPX Agrave T -55  
KPX Agrave Tcaron -55  
KPX Agrave Tcommaaccent -55  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50  
KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50  
KPX Agrave Uogonek -50  
KPX Agrave Uring -50  
KPX Agrave V -95  
KPX Agrave W -100  
KPX Agrave Y -70  
KPX Agrave Yacute -70  
KPX Agrave Ydieresis -70  
KPX Agrave quoteright -74  
KPX Agrave u -30  
KPX Agrave uacute -30  
KPX Agrave ucircumflex -30  
KPX Agrave udieresis -30  
KPX Agrave ugrave -30  
KPX Agrave uhungarumlaut -30  
KPX Agrave umacron -30  
KPX Agrave uogonek -30  
KPX Agrave uring -30  
KPX Agrave v -74  
KPX Agrave w -74  
KPX Agrave y -74  
KPX Agrave yacute -74  
KPX Agrave ydieresis -74  
KPX Amacron C -65  
KPX Amacron Cacute -65  
KPX Amacron Ccaron -65  
KPX Amacron Ccedilla -65  
KPX Amacron G -60  
KPX Amacron Gbreve -60  
KPX Amacron Gcommaaccent -60  
KPX Amacron O -50  
KPX Amacron Oacute -50  
KPX Amacron Ocircumflex -50  
KPX Amacron Odieresis -50  
KPX Amacron Ograve -50  
KPX Amacron Ohungarumlaut -50  
KPX Amacron Omacron -50

KPX Amacron Oslash -50  
KPX Amacron Otilde -50  
KPX Amacron Q -55  
KPX Amacron T -55  
KPX Amacron Tcaron -55  
KPX Amacron Tcommaaccent -55  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50  
KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50  
KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -95  
KPX Amacron W -100  
KPX Amacron Y -70  
KPX Amacron Yacute -70  
KPX Amacron Ydieresis -70  
KPX Amacron quoteright -74  
KPX Amacron u -30  
KPX Amacron uacute -30  
KPX Amacron ucircumflex -30  
KPX Amacron udieresis -30  
KPX Amacron ugrave -30  
KPX Amacron uhungarumlaut -30  
KPX Amacron umacron -30  
KPX Amacron uogonek -30  
KPX Amacron uring -30  
KPX Amacron v -74  
KPX Amacron w -74  
KPX Amacron y -74  
KPX Amacron yacute -74  
KPX Amacron ydieresis -74  
KPX Aogonek C -65  
KPX Aogonek Cacute -65  
KPX Aogonek Ccaron -65  
KPX Aogonek Ccedilla -65  
KPX Aogonek G -60  
KPX Aogonek Gbreve -60  
KPX Aogonek Gcommaaccent -60  
KPX Aogonek O -50  
KPX Aogonek Oacute -50  
KPX Aogonek Ocircumflex -50  
KPX Aogonek Odieresis -50  
KPX Aogonek Ograve -50  
KPX Aogonek Ohungarumlaut -50

KPX Aogonek Omacron -50  
KPX Aogonek Oslash -50  
KPX Aogonek Otilde -50  
KPX Aogonek Q -55  
KPX Aogonek T -55  
KPX Aogonek Tcaron -55  
KPX Aogonek Tcommaaccent -55  
KPX Aogonek U -50  
KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50  
KPX Aogonek Umacron -50  
KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -95  
KPX Aogonek W -100  
KPX Aogonek Y -70  
KPX Aogonek Yacute -70  
KPX Aogonek Ydieresis -70  
KPX Aogonek quoteright -74  
KPX Aogonek u -30  
KPX Aogonek uacute -30  
KPX Aogonek ucircumflex -30  
KPX Aogonek udieresis -30  
KPX Aogonek ugrave -30  
KPX Aogonek uhungarumlaut -30  
KPX Aogonek umacron -30  
KPX Aogonek uogonek -30  
KPX Aogonek uring -30  
KPX Aogonek v -74  
KPX Aogonek w -74  
KPX Aogonek y -34  
KPX Aogonek yacute -34  
KPX Aogonek ydieresis -34  
KPX Aring C -65  
KPX Aring Cacute -65  
KPX Aring Ccaron -65  
KPX Aring Ccedilla -65  
KPX Aring G -60  
KPX Aring Gbreve -60  
KPX Aring Gcommaaccent -60  
KPX Aring O -50  
KPX Aring Oacute -50  
KPX Aring Ocircumflex -50  
KPX Aring Odieresis -50  
KPX Aring Ograve -50

KPX Aring Ohungarumlaut -50  
KPX Aring Omacron -50  
KPX Aring Oslash -50  
KPX Aring Otilde -50  
KPX Aring Q -55  
KPX Aring T -55  
KPX Aring Tcaron -55  
KPX Aring Tcommaaccent -55  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50  
KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50  
KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -95  
KPX Aring W -100  
KPX Aring Y -70  
KPX Aring Yacute -70  
KPX Aring Ydieresis -70  
KPX Aring quoteright -74  
KPX Aring u -30  
KPX Aring uacute -30  
KPX Aring ucircumflex -30  
KPX Aring udieresis -30  
KPX Aring ugrave -30  
KPX Aring uhungarumlaut -30  
KPX Aring umacron -30  
KPX Aring uogonek -30  
KPX Aring uring -30  
KPX Aring v -74  
KPX Aring w -74  
KPX Aring y -74  
KPX Aring yacute -74  
KPX Aring ydieresis -74  
KPX Atilde C -65  
KPX Atilde Cacute -65  
KPX Atilde Ccaron -65  
KPX Atilde Ccedilla -65  
KPX Atilde G -60  
KPX Atilde Gbreve -60  
KPX Atilde Gcommaaccent -60  
KPX Atilde O -50  
KPX Atilde Oacute -50  
KPX Atilde Ocircumflex -50  
KPX Atilde Odieresis -50

KPX Atilde Ograve -50  
KPX Atilde Ohungarumlaut -50  
KPX Atilde Omacron -50  
KPX Atilde Oslash -50  
KPX Atilde Otilde -50  
KPX Atilde Q -55  
KPX Atilde T -55  
KPX Atilde Tcaron -55  
KPX Atilde Tcommaaccent -55  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50  
KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50  
KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -95  
KPX Atilde W -100  
KPX Atilde Y -70  
KPX Atilde Yacute -70  
KPX Atilde Ydieresis -70  
KPX Atilde quoteright -74  
KPX Atilde u -30  
KPX Atilde uacute -30  
KPX Atilde ucircumflex -30  
KPX Atilde udieresis -30  
KPX Atilde ugrave -30  
KPX Atilde uhungarumlaut -30  
KPX Atilde umacron -30  
KPX Atilde uogonek -30  
KPX Atilde uring -30  
KPX Atilde v -74  
KPX Atilde w -74  
KPX Atilde y -74  
KPX Atilde yacute -74  
KPX Atilde ydieresis -74  
KPX B A -25  
KPX B Aacute -25  
KPX B Abreve -25  
KPX B Acircumflex -25  
KPX B Adieresis -25  
KPX B Agrave -25  
KPX B Amacron -25  
KPX B Aogonek -25  
KPX B Aring -25  
KPX B Atilde -25

KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10  
KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX D A -25  
KPX D Aacute -25  
KPX D Abreve -25  
KPX D Acircumflex -25  
KPX D Adieresis -25  
KPX D Agrave -25  
KPX D Amacron -25  
KPX D Aogonek -25  
KPX D Aring -25  
KPX D Atilde -25  
KPX D V -50  
KPX D W -40  
KPX D Y -50  
KPX D Yacute -50  
KPX D Ydieresis -50  
KPX Dcaron A -25  
KPX Dcaron Aacute -25  
KPX Dcaron Abreve -25  
KPX Dcaron Acircumflex -25  
KPX Dcaron Adieresis -25  
KPX Dcaron Agrave -25  
KPX Dcaron Amacron -25  
KPX Dcaron Aogonek -25  
KPX Dcaron Aring -25  
KPX Dcaron Atilde -25  
KPX Dcaron V -50  
KPX Dcaron W -40  
KPX Dcaron Y -50  
KPX Dcaron Yacute -50  
KPX Dcaron Ydieresis -50  
KPX Dcroat A -25  
KPX Dcroat Aacute -25  
KPX Dcroat Abreve -25  
KPX Dcroat Acircumflex -25  
KPX Dcroat Adieresis -25  
KPX Dcroat Agrave -25  
KPX Dcroat Amacron -25  
KPX Dcroat Aogonek -25  
KPX Dcroat Aring -25

KPX Dcroat Atilde -25  
KPX Dcroat V -50  
KPX Dcroat W -40  
KPX Dcroat Y -50  
KPX Dcroat Yacute -50  
KPX Dcroat Ydieresis -50  
KPX F A -100  
KPX F Aacute -100  
KPX F Abreve -100  
KPX F Acircumflex -100  
KPX F Adieresis -100  
KPX F Agrave -100  
KPX F Amacron -100  
KPX F Aogonek -100  
KPX F Aring -100  
KPX F Atilde -100  
KPX F a -95  
KPX F aacute -95  
KPX F abreve -95  
KPX F acircumflex -95  
KPX F adieresis -95  
KPX F agrave -95  
KPX F amacron -95  
KPX F aogonek -95  
KPX F aring -95  
KPX F atilde -95  
KPX F comma -129  
KPX F e -100  
KPX F eacute -100  
KPX F ecaron -100  
KPX F ecircumflex -100  
KPX F edieresis -100  
KPX F edotaccent -100  
KPX F egrave -100  
KPX F emacron -100  
KPX F eogonek -100  
KPX F i -40  
KPX F iacute -40  
KPX F icircumflex -40  
KPX F idieresis -40  
KPX F igrave -40  
KPX F imacron -40  
KPX F iogonek -40  
KPX F o -70  
KPX F oacute -70  
KPX F ocircumflex -70  
KPX F odieresis -70  
KPX F ograve -70



KPX F ohungarumlaut -70  
KPX F omacron -70  
KPX F oslash -70  
KPX F otilde -70  
KPX F period -129  
KPX F r -50  
KPX F racute -50  
KPX F rcaron -50  
KPX F rcommaaccent -50  
KPX J A -25  
KPX J Aacute -25  
KPX J Abreve -25  
KPX J Acircumflex -25  
KPX J Adieresis -25  
KPX J Agrave -25  
KPX J Amacron -25  
KPX J Aogonek -25  
KPX J Aring -25  
KPX J Atilde -25  
KPX J a -40  
KPX J aacute -40  
KPX J abreve -40  
KPX J acircumflex -40  
KPX J adieresis -40  
KPX J agrave -40  
KPX J amacron -40  
KPX J aogonek -40  
KPX J aring -40  
KPX J atilde -40  
KPX J comma -10  
KPX J e -40  
KPX J eacute -40  
KPX J ecaron -40  
KPX J ecircumflex -40  
KPX J edieresis -40  
KPX J edotaccent -40  
KPX J egrave -40  
KPX J emacron -40  
KPX J eogonek -40  
KPX J o -40  
KPX J oacute -40  
KPX J ocircumflex -40  
KPX J odieresis -40  
KPX J ograve -40  
KPX J ohungarumlaut -40  
KPX J omacron -40  
KPX J oslash -40  
KPX J otilde -40

KPX J period -10  
KPX J u -40  
KPX J uacute -40  
KPX J ucircumflex -40  
KPX J udieresis -40  
KPX J ugrave -40  
KPX J uhungarumlaut -40  
KPX J umacron -40  
KPX J uogonek -40  
KPX J uring -40  
KPX K O -30  
KPX K Oacute -30  
KPX K Ocircumflex -30  
KPX K Odieresis -30  
KPX K Ograve -30  
KPX K Ohungarumlaut -30  
KPX K Omacron -30  
KPX K Oslash -30  
KPX K Otilde -30  
KPX K e -25  
KPX K eacute -25  
KPX K ecaron -25  
KPX K ecircumflex -25  
KPX K edieresis -25  
KPX K edotaccent -25  
KPX K egrave -25  
KPX K emacron -25  
KPX K eogonek -25  
KPX K o -25  
KPX K oacute -25  
KPX K ocircumflex -25  
KPX K odieresis -25  
KPX K ograve -25  
KPX K ohungarumlaut -25  
KPX K omacron -25  
KPX K oslash -25  
KPX K otilde -25  
KPX K u -20  
KPX K uacute -20  
KPX K ucircumflex -20  
KPX K udieresis -20  
KPX K ugrave -20  
KPX K uhungarumlaut -20  
KPX K umacron -20  
KPX K uogonek -20  
KPX K uring -20  
KPX K y -20  
KPX K yacute -20

KPX K ydieresis -20  
KPX Kcommaaccent O -30  
KPX Kcommaaccent Oacute -30  
KPX Kcommaaccent Ocircumflex -30  
KPX Kcommaaccent Odieresis -30  
KPX Kcommaaccent Ograve -30  
KPX Kcommaaccent Ohungarumlaut -30  
KPX Kcommaaccent Omacron -30  
KPX Kcommaaccent Oslash -30  
KPX Kcommaaccent Otilde -30  
KPX Kcommaaccent e -25  
KPX Kcommaaccent eacute -25  
KPX Kcommaaccent ecaron -25  
KPX Kcommaaccent ecircumflex -25  
KPX Kcommaaccent edieresis -25  
KPX Kcommaaccent edotaccent -25  
KPX Kcommaaccent egrave -25  
KPX Kcommaaccent emacron -25  
KPX Kcommaaccent eogonek -25  
KPX Kcommaaccent o -25  
KPX Kcommaaccent oacute -25  
KPX Kcommaaccent ocircumflex -25  
KPX Kcommaaccent odieresis -25  
KPX Kcommaaccent ograve -25  
KPX Kcommaaccent ohungarumlaut -25  
KPX Kcommaaccent omacron -25  
KPX Kcommaaccent oslash -25  
KPX Kcommaaccent otilde -25  
KPX Kcommaaccent u -20  
KPX Kcommaaccent uacute -20  
KPX Kcommaaccent ucircumflex -20  
KPX Kcommaaccent udieresis -20  
KPX Kcommaaccent ugrave -20  
KPX Kcommaaccent uhungarumlaut -20  
KPX Kcommaaccent umacron -20  
KPX Kcommaaccent uogonek -20  
KPX Kcommaaccent uring -20  
KPX Kcommaaccent y -20  
KPX Kcommaaccent yacute -20  
KPX Kcommaaccent ydieresis -20  
KPX L T -18  
KPX L Tcaron -18  
KPX L Tcommaaccent -18  
KPX L V -37  
KPX L W -37  
KPX L Y -37  
KPX L Yacute -37  
KPX L Ydieresis -37

KPX L quoteright -55  
KPX L y -37  
KPX L yacute -37  
KPX L ydieresis -37  
KPX Lacute T -18  
KPX Lacute Tcaron -18  
KPX Lacute Tcommaaccent -18  
KPX Lacute V -37  
KPX Lacute W -37  
KPX Lacute Y -37  
KPX Lacute Yacute -37  
KPX Lacute Ydieresis -37  
KPX Lacute quoteright -55  
KPX Lacute y -37  
KPX Lacute yacute -37  
KPX Lacute ydieresis -37  
KPX Lcommaaccent T -18  
KPX Lcommaaccent Tcaron -18  
KPX Lcommaaccent Tcommaaccent -18  
KPX Lcommaaccent V -37  
KPX Lcommaaccent W -37  
KPX Lcommaaccent Y -37  
KPX Lcommaaccent Yacute -37  
KPX Lcommaaccent Ydieresis -37  
KPX Lcommaaccent quoteright -55  
KPX Lcommaaccent y -37  
KPX Lcommaaccent yacute -37  
KPX Lcommaaccent ydieresis -37  
KPX Lslash T -18  
KPX Lslash Tcaron -18  
KPX Lslash Tcommaaccent -18  
KPX Lslash V -37  
KPX Lslash W -37  
KPX Lslash Y -37  
KPX Lslash Yacute -37  
KPX Lslash Ydieresis -37  
KPX Lslash quoteright -55  
KPX Lslash y -37  
KPX Lslash yacute -37  
KPX Lslash ydieresis -37  
KPX N A -30  
KPX N Aacute -30  
KPX N Abreve -30  
KPX N Acircumflex -30  
KPX N Adieresis -30  
KPX N Agrave -30  
KPX N Amacron -30  
KPX N Aogonek -30

KPX N Aring -30  
KPX N Atilde -30  
KPX Nacute A -30  
KPX Nacute Aacute -30  
KPX Nacute Abreve -30  
KPX Nacute Acircumflex -30  
KPX Nacute Adieresis -30  
KPX Nacute Agrave -30  
KPX Nacute Amacron -30  
KPX Nacute Aogonek -30  
KPX Nacute Aring -30  
KPX Nacute Atilde -30  
KPX Ncaron A -30  
KPX Ncaron Aacute -30  
KPX Ncaron Abreve -30  
KPX Ncaron Acircumflex -30  
KPX Ncaron Adieresis -30  
KPX Ncaron Agrave -30  
KPX Ncaron Amacron -30  
KPX Ncaron Aogonek -30  
KPX Ncaron Aring -30  
KPX Ncaron Atilde -30  
KPX Ncommaaccent A -30  
KPX Ncommaaccent Aacute -30  
KPX Ncommaaccent Abreve -30  
KPX Ncommaaccent Acircumflex -30  
KPX Ncommaaccent Adieresis -30  
KPX Ncommaaccent Agrave -30  
KPX Ncommaaccent Amacron -30  
KPX Ncommaaccent Aogonek -30  
KPX Ncommaaccent Aring -30  
KPX Ncommaaccent Atilde -30  
KPX Ntilde A -30  
KPX Ntilde Aacute -30  
KPX Ntilde Abreve -30  
KPX Ntilde Acircumflex -30  
KPX Ntilde Adieresis -30  
KPX Ntilde Agrave -30  
KPX Ntilde Amacron -30  
KPX Ntilde Aogonek -30  
KPX Ntilde Aring -30  
KPX Ntilde Atilde -30  
KPX O A -40  
KPX O Aacute -40  
KPX O Abreve -40  
KPX O Acircumflex -40  
KPX O Adieresis -40  
KPX O Agrave -40

KPX O Amacron -40  
KPX O Aogonek -40  
KPX O Aring -40  
KPX O Atilde -40  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -50  
KPX O X -40  
KPX O Y -50  
KPX O Yacute -50  
KPX O Ydieresis -50  
KPX Oacute A -40  
KPX Oacute Aacute -40  
KPX Oacute Abreve -40  
KPX Oacute Acircumflex -40  
KPX Oacute Adieresis -40  
KPX Oacute Agrave -40  
KPX Oacute Amacron -40  
KPX Oacute Aogonek -40  
KPX Oacute Aring -40  
KPX Oacute Atilde -40  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -50  
KPX Oacute X -40  
KPX Oacute Y -50  
KPX Oacute Yacute -50  
KPX Oacute Ydieresis -50  
KPX Ocircumflex A -40  
KPX Ocircumflex Aacute -40  
KPX Ocircumflex Abreve -40  
KPX Ocircumflex Acircumflex -40  
KPX Ocircumflex Adieresis -40  
KPX Ocircumflex Agrave -40  
KPX Ocircumflex Amacron -40  
KPX Ocircumflex Aogonek -40  
KPX Ocircumflex Aring -40  
KPX Ocircumflex Atilde -40  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -50  
KPX Ocircumflex X -40

KPX Ocircumflex Y -50  
KPX Ocircumflex Yacute -50  
KPX Ocircumflex Ydieresis -50  
KPX Odieresis A -40  
KPX Odieresis Aacute -40  
KPX Odieresis Abreve -40  
KPX Odieresis Acircumflex -40  
KPX Odieresis Adieresis -40  
KPX Odieresis Agrave -40  
KPX Odieresis Amacron -40  
KPX Odieresis Aogonek -40  
KPX Odieresis Aring -40  
KPX Odieresis Atilde -40  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -50  
KPX Odieresis X -40  
KPX Odieresis Y -50  
KPX Odieresis Yacute -50  
KPX Odieresis Ydieresis -50  
KPX Ograve A -40  
KPX Ograve Aacute -40  
KPX Ograve Abreve -40  
KPX Ograve Acircumflex -40  
KPX Ograve Adieresis -40  
KPX Ograve Agrave -40  
KPX Ograve Amacron -40  
KPX Ograve Aogonek -40  
KPX Ograve Aring -40  
KPX Ograve Atilde -40  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -50  
KPX Ograve X -40  
KPX Ograve Y -50  
KPX Ograve Yacute -50  
KPX Ograve Ydieresis -50  
KPX Ohungarumlaut A -40  
KPX Ohungarumlaut Aacute -40  
KPX Ohungarumlaut Abreve -40  
KPX Ohungarumlaut Acircumflex -40  
KPX Ohungarumlaut Adieresis -40  
KPX Ohungarumlaut Agrave -40  
KPX Ohungarumlaut Amacron -40

KPX Ohungarumlaut Aogonek -40  
KPX Ohungarumlaut Aring -40  
KPX Ohungarumlaut Atilde -40  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -50  
KPX Ohungarumlaut X -40  
KPX Ohungarumlaut Y -50  
KPX Ohungarumlaut Yacute -50  
KPX Ohungarumlaut Ydieresis -50  
KPX Omacron A -40  
KPX Omacron Aacute -40  
KPX Omacron Abreve -40  
KPX Omacron Acircumflex -40  
KPX Omacron Adieresis -40  
KPX Omacron Agrave -40  
KPX Omacron Amacron -40  
KPX Omacron Aogonek -40  
KPX Omacron Aring -40  
KPX Omacron Atilde -40  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -50  
KPX Omacron X -40  
KPX Omacron Y -50  
KPX Omacron Yacute -50  
KPX Omacron Ydieresis -50  
KPX Oslash A -40  
KPX Oslash Aacute -40  
KPX Oslash Abreve -40  
KPX Oslash Acircumflex -40  
KPX Oslash Adieresis -40  
KPX Oslash Agrave -40  
KPX Oslash Amacron -40  
KPX Oslash Aogonek -40  
KPX Oslash Aring -40  
KPX Oslash Atilde -40  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -50  
KPX Oslash X -40  
KPX Oslash Y -50



KPX Oslash Yacute -50  
KPX Oslash Ydieresis -50  
KPX Otilde A -40  
KPX Otilde Aacute -40  
KPX Otilde Abreve -40  
KPX Otilde Acircumflex -40  
KPX Otilde Adieresis -40  
KPX Otilde Agrave -40  
KPX Otilde Amacron -40  
KPX Otilde Aogonek -40  
KPX Otilde Aring -40  
KPX Otilde Atilde -40  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -50  
KPX Otilde X -40  
KPX Otilde Y -50  
KPX Otilde Yacute -50  
KPX Otilde Ydieresis -50  
KPX P A -85  
KPX P Aacute -85  
KPX P Abreve -85  
KPX P Acircumflex -85  
KPX P Adieresis -85  
KPX P Agrave -85  
KPX P Amacron -85  
KPX P Aogonek -85  
KPX P Aring -85  
KPX P Atilde -85  
KPX P a -40  
KPX P aacute -40  
KPX P abreve -40  
KPX P acircumflex -40  
KPX P adieresis -40  
KPX P agrave -40  
KPX P amacron -40  
KPX P aogonek -40  
KPX P aring -40  
KPX P atilde -40  
KPX P comma -129  
KPX P e -50  
KPX P eacute -50  
KPX P ecaron -50  
KPX P ecircumflex -50  
KPX P edieresis -50  
KPX P edotaccent -50

KPX P egrave -50  
KPX P emacron -50  
KPX P eogonek -50  
KPX P o -55  
KPX P oacute -55  
KPX P ocircumflex -55  
KPX P odieresis -55  
KPX P ograve -55  
KPX P ohungarumlaut -55  
KPX P omacron -55  
KPX P oslash -55  
KPX P otilde -55  
KPX P period -129  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX R O -40  
KPX R Oacute -40  
KPX R Ocircumflex -40  
KPX R Odieresis -40  
KPX R Ograve -40  
KPX R Ohungarumlaut -40  
KPX R Omacron -40  
KPX R Oslash -40  
KPX R Otilde -40  
KPX R T -30  
KPX R Tcaron -30  
KPX R Tcommaaccent -30  
KPX R U -40  
KPX R Uacute -40  
KPX R Ucircumflex -40  
KPX R Udieresis -40  
KPX R Ugrave -40  
KPX R Uhungarumlaut -40  
KPX R Umacron -40  
KPX R Uogonek -40  
KPX R Uring -40  
KPX R V -18  
KPX R W -18  
KPX R Y -18  
KPX R Yacute -18  
KPX R Ydieresis -18

KPX Racute O -40  
KPX Racute Oacute -40  
KPX Racute Ocircumflex -40  
KPX Racute Odieresis -40  
KPX Racute Ograve -40  
KPX Racute Ohungarumlaut -40  
KPX Racute Omacron -40  
KPX Racute Oslash -40  
KPX Racute Otilde -40  
KPX Racute T -30  
KPX Racute Tcaron -30  
KPX Racute Tcommaaccent -30  
KPX Racute U -40  
KPX Racute Uacute -40  
KPX Racute Ucircumflex -40  
KPX Racute Udieresis -40  
KPX Racute Ugrave -40  
KPX Racute Uhungarumlaut -40  
KPX Racute Umacron -40  
KPX Racute Uogonek -40  
KPX Racute Uring -40  
KPX Racute V -18  
KPX Racute W -18  
KPX Racute Y -18  
KPX Racute Yacute -18  
KPX Racute Ydieresis -18  
KPX Rcaron O -40  
KPX Rcaron Oacute -40  
KPX Rcaron Ocircumflex -40  
KPX Rcaron Odieresis -40  
KPX Rcaron Ograve -40  
KPX Rcaron Ohungarumlaut -40  
KPX Rcaron Omacron -40  
KPX Rcaron Oslash -40  
KPX Rcaron Otilde -40  
KPX Rcaron T -30  
KPX Rcaron Tcaron -30  
KPX Rcaron Tcommaaccent -30  
KPX Rcaron U -40  
KPX Rcaron Uacute -40  
KPX Rcaron Ucircumflex -40  
KPX Rcaron Udieresis -40  
KPX Rcaron Ugrave -40  
KPX Rcaron Uhungarumlaut -40  
KPX Rcaron Umacron -40  
KPX Rcaron Uogonek -40  
KPX Rcaron Uring -40  
KPX Rcaron V -18

KPX Rcaron W -18  
KPX Rcaron Y -18  
KPX Rcaron Yacute -18  
KPX Rcaron Ydieresis -18  
KPX Rcommaaccent O -40  
KPX Rcommaaccent Oacute -40  
KPX Rcommaaccent Ocircumflex -40  
KPX Rcommaaccent Odieresis -40  
KPX Rcommaaccent Ograve -40  
KPX Rcommaaccent Ohungarumlaut -40  
KPX Rcommaaccent Omacron -40  
KPX Rcommaaccent Oslash -40  
KPX Rcommaaccent Otilde -40  
KPX Rcommaaccent T -30  
KPX Rcommaaccent Tcaron -30  
KPX Rcommaaccent Tcommaaccent -30  
KPX Rcommaaccent U -40  
KPX Rcommaaccent Uacute -40  
KPX Rcommaaccent Ucircumflex -40  
KPX Rcommaaccent Udieresis -40  
KPX Rcommaaccent Ugrave -40  
KPX Rcommaaccent Uhungarumlaut -40  
KPX Rcommaaccent Umacron -40  
KPX Rcommaaccent Uogonek -40  
KPX Rcommaaccent Uring -40  
KPX Rcommaaccent V -18  
KPX Rcommaaccent W -18  
KPX Rcommaaccent Y -18  
KPX Rcommaaccent Yacute -18  
KPX Rcommaaccent Ydieresis -18  
KPX T A -55  
KPX T Aacute -55  
KPX T Abreve -55  
KPX T Acircumflex -55  
KPX T Adieresis -55  
KPX T Agrave -55  
KPX T Amacron -55  
KPX T Aogonek -55  
KPX T Aring -55  
KPX T Atilde -55  
KPX T O -18  
KPX T Oacute -18  
KPX T Ocircumflex -18  
KPX T Odieresis -18  
KPX T Ograve -18  
KPX T Ohungarumlaut -18  
KPX T Omacron -18  
KPX T Oslash -18

KPX T Otilde -18  
KPX T a -92  
KPX T aacute -92  
KPX T abreve -92  
KPX T acircumflex -92  
KPX T adieresis -92  
KPX T agrave -92  
KPX T amacron -92  
KPX T aogonek -92  
KPX T aring -92  
KPX T atilde -92  
KPX T colon -74  
KPX T comma -92  
KPX T e -92  
KPX T eacute -92  
KPX T ecaron -92  
KPX T ecircumflex -92  
KPX T edieresis -52  
KPX T edotaccent -92  
KPX T egrave -52  
KPX T emacron -52  
KPX T eogonek -92  
KPX T hyphen -92  
KPX T i -37  
KPX T iacute -37  
KPX T iogonek -37  
KPX T o -95  
KPX T oacute -95  
KPX T ocircumflex -95  
KPX T odieresis -95  
KPX T ograve -95  
KPX T ohungarumlaut -95  
KPX T omacron -95  
KPX T oslash -95  
KPX T otilde -95  
KPX T period -92  
KPX T r -37  
KPX T racute -37  
KPX T rcaron -37  
KPX T rcommaaccent -37  
KPX T semicolon -74  
KPX T u -37  
KPX T uacute -37  
KPX T ucircumflex -37  
KPX T udieresis -37  
KPX T ugrave -37  
KPX T uhungarumlaut -37  
KPX T umacron -37

KPX T uogonek -37  
KPX T uring -37  
KPX T w -37  
KPX T y -37  
KPX T yacute -37  
KPX T ydieresis -37  
KPX Tcaron A -55  
KPX Tcaron Aacute -55  
KPX Tcaron Abreve -55  
KPX Tcaron Acircumflex -55  
KPX Tcaron Adieresis -55  
KPX Tcaron Agrave -55  
KPX Tcaron Amacron -55  
KPX Tcaron Aogonek -55  
KPX Tcaron Aring -55  
KPX Tcaron Atilde -55  
KPX Tcaron O -18  
KPX Tcaron Oacute -18  
KPX Tcaron Ocircumflex -18  
KPX Tcaron Odieresis -18  
KPX Tcaron Ograve -18  
KPX Tcaron Ohungarumlaut -18  
KPX Tcaron Omacron -18  
KPX Tcaron Oslash -18  
KPX Tcaron Otilde -18  
KPX Tcaron a -92  
KPX Tcaron aacute -92  
KPX Tcaron abreve -92  
KPX Tcaron acircumflex -92  
KPX Tcaron adieresis -92  
KPX Tcaron agrave -92  
KPX Tcaron amacron -92  
KPX Tcaron aogonek -92  
KPX Tcaron aring -92  
KPX Tcaron atilde -92  
KPX Tcaron colon -74  
KPX Tcaron comma -92  
KPX Tcaron e -92  
KPX Tcaron eacute -92  
KPX Tcaron ecaron -92  
KPX Tcaron ecircumflex -92  
KPX Tcaron edieresis -52  
KPX Tcaron edotaccent -92  
KPX Tcaron egrave -52  
KPX Tcaron emacron -52  
KPX Tcaron eogonek -92  
KPX Tcaron hyphen -92  
KPX Tcaron i -37

KPX Tcaron iacute -37  
KPX Tcaron iogonek -37  
KPX Tcaron o -95  
KPX Tcaron oacute -95  
KPX Tcaron ocircumflex -95  
KPX Tcaron odieresis -95  
KPX Tcaron ograve -95  
KPX Tcaron ohungarumlaut -95  
KPX Tcaron omacron -95  
KPX Tcaron oslash -95  
KPX Tcaron otilde -95  
KPX Tcaron period -92  
KPX Tcaron r -37  
KPX Tcaron racute -37  
KPX Tcaron rcaron -37  
KPX Tcaron rcommaaccent -37  
KPX Tcaron semicolon -74  
KPX Tcaron u -37  
KPX Tcaron uacute -37  
KPX Tcaron ucircumflex -37  
KPX Tcaron udieresis -37  
KPX Tcaron ugrave -37  
KPX Tcaron uhungarumlaut -37  
KPX Tcaron umacron -37  
KPX Tcaron uogonek -37  
KPX Tcaron uring -37  
KPX Tcaron w -37  
KPX Tcaron y -37  
KPX Tcaron yacute -37  
KPX Tcaron ydieresis -37  
KPX Tcommaaccent A -55  
KPX Tcommaaccent Aacute -55  
KPX Tcommaaccent Abreve -55  
KPX Tcommaaccent Acircumflex -55  
KPX Tcommaaccent Adieresis -55  
KPX Tcommaaccent Agrave -55  
KPX Tcommaaccent Amacron -55  
KPX Tcommaaccent Aogonek -55  
KPX Tcommaaccent Aring -55  
KPX Tcommaaccent Atilde -55  
KPX Tcommaaccent O -18  
KPX Tcommaaccent Oacute -18  
KPX Tcommaaccent Ocircumflex -18  
KPX Tcommaaccent Odieresis -18  
KPX Tcommaaccent Ograve -18  
KPX Tcommaaccent Ohungarumlaut -18  
KPX Tcommaaccent Omacron -18  
KPX Tcommaaccent Oslash -18

KPX Tcommaaccent Otilde -18  
KPX Tcommaaccent a -92  
KPX Tcommaaccent aacute -92  
KPX Tcommaaccent abreve -92  
KPX Tcommaaccent acircumflex -92  
KPX Tcommaaccent adieresis -92  
KPX Tcommaaccent agrave -92  
KPX Tcommaaccent amacron -92  
KPX Tcommaaccent aogonek -92  
KPX Tcommaaccent aring -92  
KPX Tcommaaccent atilde -92  
KPX Tcommaaccent colon -74  
KPX Tcommaaccent comma -92  
KPX Tcommaaccent e -92  
KPX Tcommaaccent eacute -92  
KPX Tcommaaccent ecaron -92  
KPX Tcommaaccent ecircumflex -92  
KPX Tcommaaccent edieresis -52  
KPX Tcommaaccent edotaccent -92  
KPX Tcommaaccent egrave -52  
KPX Tcommaaccent emacron -52  
KPX Tcommaaccent eogonek -92  
KPX Tcommaaccent hyphen -92  
KPX Tcommaaccent i -37  
KPX Tcommaaccent iacute -37  
KPX Tcommaaccent iogonek -37  
KPX Tcommaaccent o -95  
KPX Tcommaaccent oacute -95  
KPX Tcommaaccent ocircumflex -95  
KPX Tcommaaccent odieresis -95  
KPX Tcommaaccent ograve -95  
KPX Tcommaaccent ohungarumlaut -95  
KPX Tcommaaccent omacron -95  
KPX Tcommaaccent oslash -95  
KPX Tcommaaccent otilde -95  
KPX Tcommaaccent period -92  
KPX Tcommaaccent r -37  
KPX Tcommaaccent racute -37  
KPX Tcommaaccent rcaron -37  
KPX Tcommaaccent rcommaaccent -37  
KPX Tcommaaccent semicolon -74  
KPX Tcommaaccent u -37  
KPX Tcommaaccent uacute -37  
KPX Tcommaaccent ucircumflex -37  
KPX Tcommaaccent udieresis -37  
KPX Tcommaaccent ugrave -37  
KPX Tcommaaccent uhungarumlaut -37  
KPX Tcommaaccent umacron -37



KPX Tcommaaccent uogonek -37  
KPX Tcommaaccent uring -37  
KPX Tcommaaccent w -37  
KPX Tcommaaccent y -37  
KPX Tcommaaccent yacute -37  
KPX Tcommaaccent ydieresis -37  
KPX U A -45  
KPX U Aacute -45  
KPX U Abreve -45  
KPX U Acircumflex -45  
KPX U Adieresis -45  
KPX U Agrave -45  
KPX U Amacron -45  
KPX U Aogonek -45  
KPX U Aring -45  
KPX U Atilde -45  
KPX Uacute A -45  
KPX Uacute Aacute -45  
KPX Uacute Abreve -45  
KPX Uacute Acircumflex -45  
KPX Uacute Adieresis -45  
KPX Uacute Agrave -45  
KPX Uacute Amacron -45  
KPX Uacute Aogonek -45  
KPX Uacute Aring -45  
KPX Uacute Atilde -45  
KPX Ucircumflex A -45  
KPX Ucircumflex Aacute -45  
KPX Ucircumflex Abreve -45  
KPX Ucircumflex Acircumflex -45  
KPX Ucircumflex Adieresis -45  
KPX Ucircumflex Agrave -45  
KPX Ucircumflex Amacron -45  
KPX Ucircumflex Aogonek -45  
KPX Ucircumflex Aring -45  
KPX Ucircumflex Atilde -45  
KPX Udieresis A -45  
KPX Udieresis Aacute -45  
KPX Udieresis Abreve -45  
KPX Udieresis Acircumflex -45  
KPX Udieresis Adieresis -45  
KPX Udieresis Agrave -45  
KPX Udieresis Amacron -45  
KPX Udieresis Aogonek -45  
KPX Udieresis Aring -45  
KPX Udieresis Atilde -45  
KPX Ugrave A -45  
KPX Ugrave Aacute -45

KPX Ugrave Abreve -45  
KPX Ugrave Acircumflex -45  
KPX Ugrave Adieresis -45  
KPX Ugrave Agrave -45  
KPX Ugrave Amacron -45  
KPX Ugrave Aogonek -45  
KPX Ugrave Aring -45  
KPX Ugrave Atilde -45  
KPX Uhungarumlaut A -45  
KPX Uhungarumlaut Aacute -45  
KPX Uhungarumlaut Abreve -45  
KPX Uhungarumlaut Acircumflex -45  
KPX Uhungarumlaut Adieresis -45  
KPX Uhungarumlaut Agrave -45  
KPX Uhungarumlaut Amacron -45  
KPX Uhungarumlaut Aogonek -45  
KPX Uhungarumlaut Aring -45  
KPX Uhungarumlaut Atilde -45  
KPX Umacron A -45  
KPX Umacron Aacute -45  
KPX Umacron Abreve -45  
KPX Umacron Acircumflex -45  
KPX Umacron Adieresis -45  
KPX Umacron Agrave -45  
KPX Umacron Amacron -45  
KPX Umacron Aogonek -45  
KPX Umacron Aring -45  
KPX Umacron Atilde -45  
KPX Uogonek A -45  
KPX Uogonek Aacute -45  
KPX Uogonek Abreve -45  
KPX Uogonek Acircumflex -45  
KPX Uogonek Adieresis -45  
KPX Uogonek Agrave -45  
KPX Uogonek Amacron -45  
KPX Uogonek Aogonek -45  
KPX Uogonek Aring -45  
KPX Uogonek Atilde -45  
KPX Uring A -45  
KPX Uring Aacute -45  
KPX Uring Abreve -45  
KPX Uring Acircumflex -45  
KPX Uring Adieresis -45  
KPX Uring Agrave -45  
KPX Uring Amacron -45  
KPX Uring Aogonek -45  
KPX Uring Aring -45  
KPX Uring Atilde -45

KPX V A -85  
KPX V Aacute -85  
KPX V Abreve -85  
KPX V Acircumflex -85  
KPX V Adieresis -85  
KPX V Agrave -85  
KPX V Amacron -85  
KPX V Aogonek -85  
KPX V Aring -85  
KPX V Atilde -85  
KPX V G -10  
KPX V Gbreve -10  
KPX V Gcommaaccent -10  
KPX V O -30  
KPX V Oacute -30  
KPX V Ocircumflex -30  
KPX V Odieresis -30  
KPX V Ograve -30  
KPX V Ohungarumlaut -30  
KPX V Omacron -30  
KPX V Oslash -30  
KPX V Otilde -30  
KPX V a -111  
KPX V aacute -111  
KPX V abreve -111  
KPX V acircumflex -111  
KPX V adieresis -111  
KPX V agrave -111  
KPX V amacron -111  
KPX V aogonek -111  
KPX V aring -111  
KPX V atilde -111  
KPX V colon -74  
KPX V comma -129  
KPX V e -111  
KPX V eacute -111  
KPX V ecaron -111  
KPX V ecircumflex -111  
KPX V edieresis -71  
KPX V edotaccent -111  
KPX V egrave -71  
KPX V emacron -71  
KPX V eogonek -111  
KPX V hyphen -70  
KPX V i -55  
KPX V iacute -55  
KPX V iogonek -55  
KPX V o -111

KPX V oacute -111  
KPX V ocircumflex -111  
KPX V odieresis -111  
KPX V ograve -111  
KPX V ohungarumlaut -111  
KPX V omacron -111  
KPX V oslash -111  
KPX V otilde -111  
KPX V period -129  
KPX V semicolon -74  
KPX V u -55  
KPX V uacute -55  
KPX V ucircumflex -55  
KPX V udieresis -55  
KPX V ugrave -55  
KPX V uhungarumlaut -55  
KPX V umacron -55  
KPX V uogonek -55  
KPX V uring -55  
KPX W A -74  
KPX W Aacute -74  
KPX W Abreve -74  
KPX W Acircumflex -74  
KPX W Adieresis -74  
KPX W Agrave -74  
KPX W Amacron -74  
KPX W Aogonek -74  
KPX W Aring -74  
KPX W Atilde -74  
KPX W O -15  
KPX W Oacute -15  
KPX W Ocircumflex -15  
KPX W Odieresis -15  
KPX W Ograve -15  
KPX W Ohungarumlaut -15  
KPX W Omacron -15  
KPX W Oslash -15  
KPX W Otilde -15  
KPX W a -85  
KPX W aacute -85  
KPX W abreve -85  
KPX W acircumflex -85  
KPX W adieresis -85  
KPX W agrave -85  
KPX W amacron -85  
KPX W aogonek -85  
KPX W aring -85  
KPX W atilde -85

KPX W colon -55  
KPX W comma -74  
KPX W e -90  
KPX W eacute -90  
KPX W ecaron -90  
KPX W ecircumflex -90  
KPX W edieresis -50  
KPX W edotaccent -90  
KPX W egrave -50  
KPX W emacron -50  
KPX W eogonek -90  
KPX W hyphen -50  
KPX W i -37  
KPX W iacute -37  
KPX W iogonek -37  
KPX W o -80  
KPX W oacute -80  
KPX W ocircumflex -80  
KPX W odieresis -80  
KPX W ograve -80  
KPX W ohungarumlaut -80  
KPX W omacron -80  
KPX W oslash -80  
KPX W otilde -80  
KPX W period -74  
KPX W semicolon -55  
KPX W u -55  
KPX W uacute -55  
KPX W ucircumflex -55  
KPX W udieresis -55  
KPX W ugrave -55  
KPX W uhungarumlaut -55  
KPX W umacron -55  
KPX W uogonek -55  
KPX W uring -55  
KPX W y -55  
KPX W yacute -55  
KPX W ydieresis -55  
KPX Y A -74  
KPX Y Aacute -74  
KPX Y Abreve -74  
KPX Y Acircumflex -74  
KPX Y Adieresis -74  
KPX Y Agrave -74  
KPX Y Amacron -74  
KPX Y Aogonek -74  
KPX Y Aring -74  
KPX Y Atilde -74

KPX Y O -25  
KPX Y Oacute -25  
KPX Y Ocircumflex -25  
KPX Y Odieresis -25  
KPX Y Ograve -25  
KPX Y Ohungarumlaut -25  
KPX Y Omacron -25  
KPX Y Oslash -25  
KPX Y Otilde -25  
KPX Y a -92  
KPX Y aacute -92  
KPX Y abreve -92  
KPX Y acircumflex -92  
KPX Y adieresis -92  
KPX Y agrave -92  
KPX Y amacron -92  
KPX Y aogonek -92  
KPX Y aring -92  
KPX Y atilde -92  
KPX Y colon -92  
KPX Y comma -92  
KPX Y e -111  
KPX Y eacute -111  
KPX Y ecaron -111  
KPX Y ecircumflex -71  
KPX Y edieresis -71  
KPX Y edotaccent -111  
KPX Y egrave -71  
KPX Y emacron -71  
KPX Y eogonek -111  
KPX Y hyphen -92  
KPX Y i -55  
KPX Y iacute -55  
KPX Y iogonek -55  
KPX Y o -111  
KPX Y oacute -111  
KPX Y ocircumflex -111  
KPX Y odieresis -111  
KPX Y ograve -111  
KPX Y ohungarumlaut -111  
KPX Y omacron -111  
KPX Y oslash -111  
KPX Y otilde -111  
KPX Y period -74  
KPX Y semicolon -92  
KPX Y u -92  
KPX Y uacute -92  
KPX Y ucircumflex -92

KPX Y udieresis -92  
KPX Y ugrave -92  
KPX Y uhungarumlaut -92  
KPX Y umacron -92  
KPX Y uogonek -92  
KPX Y uring -92  
KPX Yacute A -74  
KPX Yacute Aacute -74  
KPX Yacute Abreve -74  
KPX Yacute Acircumflex -74  
KPX Yacute Adieresis -74  
KPX Yacute Agrave -74  
KPX Yacute Amacron -74  
KPX Yacute Aogonek -74  
KPX Yacute Aring -74  
KPX Yacute Atilde -74  
KPX Yacute O -25  
KPX Yacute Oacute -25  
KPX Yacute Ocircumflex -25  
KPX Yacute Odieresis -25  
KPX Yacute Ograve -25  
KPX Yacute Ohungarumlaut -25  
KPX Yacute Omacron -25  
KPX Yacute Oslash -25  
KPX Yacute Otilde -25  
KPX Yacute a -92  
KPX Yacute aacute -92  
KPX Yacute abreve -92  
KPX Yacute acircumflex -92  
KPX Yacute adieresis -92  
KPX Yacute agrave -92  
KPX Yacute amacron -92  
KPX Yacute aogonek -92  
KPX Yacute aring -92  
KPX Yacute atilde -92  
KPX Yacute colon -92  
KPX Yacute comma -92  
KPX Yacute e -111  
KPX Yacute eacute -111  
KPX Yacute ecaron -111  
KPX Yacute ecircumflex -71  
KPX Yacute edieresis -71  
KPX Yacute edotaccent -111  
KPX Yacute egrave -71  
KPX Yacute emacron -71  
KPX Yacute eogonek -111  
KPX Yacute hyphen -92  
KPX Yacute i -55

KPX Yacute iacute -55  
KPX Yacute iogonek -55  
KPX Yacute o -111  
KPX Yacute oacute -111  
KPX Yacute ocircumflex -111  
KPX Yacute odieresis -111  
KPX Yacute ograve -111  
KPX Yacute ohungarumlaut -111  
KPX Yacute omacron -111  
KPX Yacute oslash -111  
KPX Yacute otilde -111  
KPX Yacute period -74  
KPX Yacute semicolon -92  
KPX Yacute u -92  
KPX Yacute uacute -92  
KPX Yacute ucircumflex -92  
KPX Yacute udieresis -92  
KPX Yacute ugrave -92  
KPX Yacute uhungarumlaut -92  
KPX Yacute umacron -92  
KPX Yacute uogonek -92  
KPX Yacute uring -92  
KPX Ydieresis A -74  
KPX Ydieresis Aacute -74  
KPX Ydieresis Abreve -74  
KPX Ydieresis Acircumflex -74  
KPX Ydieresis Adieresis -74  
KPX Ydieresis Agrave -74  
KPX Ydieresis Amacron -74  
KPX Ydieresis Aogonek -74  
KPX Ydieresis Aring -74  
KPX Ydieresis Atilde -74  
KPX Ydieresis O -25  
KPX Ydieresis Oacute -25  
KPX Ydieresis Ocircumflex -25  
KPX Ydieresis Odieresis -25  
KPX Ydieresis Ograve -25  
KPX Ydieresis Ohungarumlaut -25  
KPX Ydieresis Omacron -25  
KPX Ydieresis Oslash -25  
KPX Ydieresis Otilde -25  
KPX Ydieresis a -92  
KPX Ydieresis aacute -92  
KPX Ydieresis abreve -92  
KPX Ydieresis acircumflex -92  
KPX Ydieresis adieresis -92  
KPX Ydieresis agrave -92  
KPX Ydieresis amacron -92



KPX Ydieresis aogonek -92  
KPX Ydieresis aring -92  
KPX Ydieresis atilde -92  
KPX Ydieresis colon -92  
KPX Ydieresis comma -92  
KPX Ydieresis e -111  
KPX Ydieresis eacute -111  
KPX Ydieresis ecaron -111  
KPX Ydieresis ecircumflex -71  
KPX Ydieresis edieresis -71  
KPX Ydieresis edotaccent -111  
KPX Ydieresis egrave -71  
KPX Ydieresis emacron -71  
KPX Ydieresis eogonek -111  
KPX Ydieresis hyphen -92  
KPX Ydieresis i -55  
KPX Ydieresis iacute -55  
KPX Ydieresis iogonek -55  
KPX Ydieresis o -111  
KPX Ydieresis oacute -111  
KPX Ydieresis ocircumflex -111  
KPX Ydieresis odieresis -111  
KPX Ydieresis ograve -111  
KPX Ydieresis ohungarumlaut -111  
KPX Ydieresis omacron -111  
KPX Ydieresis oslash -111  
KPX Ydieresis otilde -111  
KPX Ydieresis period -74  
KPX Ydieresis semicolon -92  
KPX Ydieresis u -92  
KPX Ydieresis uacute -92  
KPX Ydieresis ucircumflex -92  
KPX Ydieresis udieresis -92  
KPX Ydieresis ugrave -92  
KPX Ydieresis uhungarumlaut -92  
KPX Ydieresis umacron -92  
KPX Ydieresis uogonek -92  
KPX Ydieresis uring -92  
KPX b b -10  
KPX b period -40  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20

KPX b uring -20  
KPX c h -10  
KPX c k -10  
KPX c kcommaaccent -10  
KPX cacute h -10  
KPX cacute k -10  
KPX cacute kcommaaccent -10  
KPX ccaron h -10  
KPX ccaron k -10  
KPX ccaron kcommaaccent -10  
KPX ccedilla h -10  
KPX ccedilla k -10  
KPX ccedilla kcommaaccent -10  
KPX comma quotedblright -95  
KPX comma quoteright -95  
KPX e b -10  
KPX eacute b -10  
KPX ecaron b -10  
KPX ecircumflex b -10  
KPX edieresis b -10  
KPX edotaccent b -10  
KPX egrave b -10  
KPX emacron b -10  
KPX eogonek b -10  
KPX f comma -10  
KPX f dotlessi -30  
KPX f e -10  
KPX f eacute -10  
KPX f edotaccent -10  
KPX f eogonek -10  
KPX f f -18  
KPX f o -10  
KPX f oacute -10  
KPX f ocircumflex -10  
KPX f ograve -10  
KPX f ohungarumlaut -10  
KPX f oslash -10  
KPX f otilde -10  
KPX f period -10  
KPX f quoteright 55  
KPX k e -30  
KPX k eacute -30  
KPX k ecaron -30  
KPX k ecircumflex -30  
KPX k edieresis -30  
KPX k edotaccent -30  
KPX k egrave -30  
KPX k emacron -30

KPX k eogonek -30  
KPX k o -10  
KPX k oacute -10  
KPX k ocircumflex -10  
KPX k odieresis -10  
KPX k ograve -10  
KPX k ohungarumlaut -10  
KPX k omacron -10  
KPX k oslash -10  
KPX k otilde -10  
KPX kcommaaccent e -30  
KPX kcommaaccent eacute -30  
KPX kcommaaccent ecaron -30  
KPX kcommaaccent ecircumflex -30  
KPX kcommaaccent edieresis -30  
KPX kcommaaccent edotaccent -30  
KPX kcommaaccent egrave -30  
KPX kcommaaccent emacron -30  
KPX kcommaaccent eogonek -30  
KPX kcommaaccent o -10  
KPX kcommaaccent oacute -10  
KPX kcommaaccent ocircumflex -10  
KPX kcommaaccent odieresis -10  
KPX kcommaaccent ograve -10  
KPX kcommaaccent ohungarumlaut -10  
KPX kcommaaccent omacron -10  
KPX kcommaaccent oslash -10  
KPX kcommaaccent otilde -10  
KPX n v -40  
KPX nacute v -40  
KPX ncaron v -40  
KPX ncommaaccent v -40  
KPX ntilde v -40  
KPX o v -15  
KPX o w -25  
KPX o x -10  
KPX o y -10  
KPX o yacute -10  
KPX o ydieresis -10  
KPX oacute v -15  
KPX oacute w -25  
KPX oacute x -10  
KPX oacute y -10  
KPX oacute yacute -10  
KPX oacute ydieresis -10  
KPX ocircumflex v -15  
KPX ocircumflex w -25  
KPX ocircumflex x -10

KPX ocircumflex y -10  
KPX ocircumflex yacute -10  
KPX ocircumflex ydieresis -10  
KPX odieresis v -15  
KPX odieresis w -25  
KPX odieresis x -10  
KPX odieresis y -10  
KPX odieresis yacute -10  
KPX odieresis ydieresis -10  
KPX ograve v -15  
KPX ograve w -25  
KPX ograve x -10  
KPX ograve y -10  
KPX ograve yacute -10  
KPX ograve ydieresis -10  
KPX ohungarumlaut v -15  
KPX ohungarumlaut w -25  
KPX ohungarumlaut x -10  
KPX ohungarumlaut y -10  
KPX ohungarumlaut yacute -10  
KPX ohungarumlaut ydieresis -10  
KPX omacron v -15  
KPX omacron w -25  
KPX omacron x -10  
KPX omacron y -10  
KPX omacron yacute -10  
KPX omacron ydieresis -10  
KPX oslash v -15  
KPX oslash w -25  
KPX oslash x -10  
KPX oslash y -10  
KPX oslash yacute -10  
KPX oslash ydieresis -10  
KPX otilde v -15  
KPX otilde w -25  
KPX otilde x -10  
KPX otilde y -10  
KPX otilde yacute -10  
KPX otilde ydieresis -10  
KPX period quotedblright -95  
KPX period quoteright -95  
KPX quoteleft quoteleft -74  
KPX quoteright d -15  
KPX quoteright dcroat -15  
KPX quoteright quoteright -74  
KPX quoteright r -15  
KPX quoteright racute -15  
KPX quoteright rcaron -15

KPX quoteright rcommaaccent -15  
KPX quoteright s -74  
KPX quoteright sacute -74  
KPX quoteright scaron -74  
KPX quoteright scedilla -74  
KPX quoteright scommaaccent -74  
KPX quoteright space -74  
KPX quoteright t -37  
KPX quoteright tcommaaccent -37  
KPX quoteright v -15  
KPX r comma -65  
KPX r period -65  
KPX racute comma -65  
KPX racute period -65  
KPX rcaron comma -65  
KPX rcaron period -65  
KPX rcommaaccent comma -65  
KPX rcommaaccent period -65  
KPX space A -37  
KPX space Aacute -37  
KPX space Abreve -37  
KPX space Acircumflex -37  
KPX space Adieresis -37  
KPX space Agrave -37  
KPX space Amacron -37  
KPX space Aogonek -37  
KPX space Aring -37  
KPX space Atilde -37  
KPX space V -70  
KPX space W -70  
KPX space Y -70  
KPX space Yacute -70  
KPX space Ydieresis -70  
KPX v comma -37  
KPX v e -15  
KPX v eacute -15  
KPX v ecaron -15  
KPX v ecircumflex -15  
KPX v edieresis -15  
KPX v edotaccent -15  
KPX v egrave -15  
KPX v emacron -15  
KPX v eogonek -15  
KPX v o -15  
KPX v oacute -15  
KPX v ocircumflex -15  
KPX v odieresis -15  
KPX v ograve -15

KPX v ohungarumlaut -15  
KPX v omacron -15  
KPX v oslash -15  
KPX v otilde -15  
KPX v period -37  
KPX w a -10  
KPX w aacute -10  
KPX w abreve -10  
KPX w acircumflex -10  
KPX w adieresis -10  
KPX w agrave -10  
KPX w amacron -10  
KPX w aogonek -10  
KPX w aring -10  
KPX w atilde -10  
KPX w comma -37  
KPX w e -10  
KPX w eacute -10  
KPX w ecaron -10  
KPX w ecircumflex -10  
KPX w edieresis -10  
KPX w edotaccent -10  
KPX w egrave -10  
KPX w emacron -10  
KPX w eogonek -10  
KPX w o -15  
KPX w oacute -15  
KPX w ocircumflex -15  
KPX w odieresis -15  
KPX w ograve -15  
KPX w ohungarumlaut -15  
KPX w omacron -15  
KPX w oslash -15  
KPX w otilde -15  
KPX w period -37  
KPX x e -10  
KPX x eacute -10  
KPX x ecaron -10  
KPX x ecircumflex -10  
KPX x edieresis -10  
KPX x edotaccent -10  
KPX x egrave -10  
KPX x emacron -10  
KPX x eogonek -10  
KPX y comma -37  
KPX y period -37  
KPX yacute comma -37  
KPX yacute period -37

KPX ydieresis comma -37  
KPX ydieresis period -37  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 4.1  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu May 1 12:52:56 1997  
Comment UniqueID 43065  
Comment VMusage 41636 52661  
FontName Times-Bold  
FullName Times Bold  
FamilyName Times  
Weight Bold  
ItalicAngle 0  
IsFixedPitch false  
CharacterSet ExtendedRoman  
FontBBox -168 -218 1000 935  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.000  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved. Times  
is a trademark of Linotype-Hell AG and/or its subsidiaries.  
EncodingScheme AdobeStandardEncoding  
CapHeight 676  
XHeight 461  
Ascender 683  
Descender -217  
StdHW 44  
StdVW 139  
StartCharMetrics 315  
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 81 -13 251 691 ;  
C 34 ; WX 555 ; N quotedbl ; B 83 404 472 691 ;  
C 35 ; WX 500 ; N numbersign ; B 4 0 496 700 ;  
C 36 ; WX 500 ; N dollar ; B 29 -99 472 750 ;  
C 37 ; WX 1000 ; N percent ; B 124 -14 877 692 ;  
C 38 ; WX 833 ; N ampersand ; B 62 -16 787 691 ;  
C 39 ; WX 333 ; N quoteright ; B 79 356 263 691 ;  
C 40 ; WX 333 ; N parenleft ; B 46 -168 306 694 ;  
C 41 ; WX 333 ; N parenright ; B 27 -168 287 694 ;  
C 42 ; WX 500 ; N asterisk ; B 56 255 447 691 ;  
C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;  
C 44 ; WX 250 ; N comma ; B 39 -180 223 155 ;  
C 45 ; WX 333 ; N hyphen ; B 44 171 287 287 ;  
C 46 ; WX 250 ; N period ; B 41 -13 210 156 ;  
C 47 ; WX 278 ; N slash ; B -24 -19 302 691 ;  
C 48 ; WX 500 ; N zero ; B 24 -13 476 688 ;

C 49 ; WX 500 ; N one ; B 65 0 442 688 ;  
C 50 ; WX 500 ; N two ; B 17 0 478 688 ;  
C 51 ; WX 500 ; N three ; B 16 -14 468 688 ;  
C 52 ; WX 500 ; N four ; B 19 0 475 688 ;  
C 53 ; WX 500 ; N five ; B 22 -8 470 676 ;  
C 54 ; WX 500 ; N six ; B 28 -13 475 688 ;  
C 55 ; WX 500 ; N seven ; B 17 0 477 676 ;  
C 56 ; WX 500 ; N eight ; B 28 -13 472 688 ;  
C 57 ; WX 500 ; N nine ; B 26 -13 473 688 ;  
C 58 ; WX 333 ; N colon ; B 82 -13 251 472 ;  
C 59 ; WX 333 ; N semicolon ; B 82 -180 266 472 ;  
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;  
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;  
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;  
C 63 ; WX 500 ; N question ; B 57 -13 445 689 ;  
C 64 ; WX 930 ; N at ; B 108 -19 822 691 ;  
C 65 ; WX 722 ; N A ; B 9 0 689 690 ;  
C 66 ; WX 667 ; N B ; B 16 0 619 676 ;  
C 67 ; WX 722 ; N C ; B 49 -19 687 691 ;  
C 68 ; WX 722 ; N D ; B 14 0 690 676 ;  
C 69 ; WX 667 ; N E ; B 16 0 641 676 ;  
C 70 ; WX 611 ; N F ; B 16 0 583 676 ;  
C 71 ; WX 778 ; N G ; B 37 -19 755 691 ;  
C 72 ; WX 778 ; N H ; B 21 0 759 676 ;  
C 73 ; WX 389 ; N I ; B 20 0 370 676 ;  
C 74 ; WX 500 ; N J ; B 3 -96 479 676 ;  
C 75 ; WX 778 ; N K ; B 30 0 769 676 ;  
C 76 ; WX 667 ; N L ; B 19 0 638 676 ;  
C 77 ; WX 944 ; N M ; B 14 0 921 676 ;  
C 78 ; WX 722 ; N N ; B 16 -18 701 676 ;  
C 79 ; WX 778 ; N O ; B 35 -19 743 691 ;  
C 80 ; WX 611 ; N P ; B 16 0 600 676 ;  
C 81 ; WX 778 ; N Q ; B 35 -176 743 691 ;  
C 82 ; WX 722 ; N R ; B 26 0 715 676 ;  
C 83 ; WX 556 ; N S ; B 35 -19 513 692 ;  
C 84 ; WX 667 ; N T ; B 31 0 636 676 ;  
C 85 ; WX 722 ; N U ; B 16 -19 701 676 ;  
C 86 ; WX 722 ; N V ; B 16 -18 701 676 ;  
C 87 ; WX 1000 ; N W ; B 19 -15 981 676 ;  
C 88 ; WX 722 ; N X ; B 16 0 699 676 ;  
C 89 ; WX 722 ; N Y ; B 15 0 699 676 ;  
C 90 ; WX 667 ; N Z ; B 28 0 634 676 ;  
C 91 ; WX 333 ; N bracketleft ; B 67 -149 301 678 ;  
C 92 ; WX 278 ; N backslash ; B -25 -19 303 691 ;  
C 93 ; WX 333 ; N bracketright ; B 32 -149 266 678 ;  
C 94 ; WX 581 ; N asciicircum ; B 73 311 509 676 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 70 356 254 691 ;



C 97 ; WX 500 ; N a ; B 25 -14 488 473 ;  
C 98 ; WX 556 ; N b ; B 17 -14 521 676 ;  
C 99 ; WX 444 ; N c ; B 25 -14 430 473 ;  
C 100 ; WX 556 ; N d ; B 25 -14 534 676 ;  
C 101 ; WX 444 ; N e ; B 25 -14 426 473 ;  
C 102 ; WX 333 ; N f ; B 14 0 389 691 ; L i fi ; L l fl ;  
C 103 ; WX 500 ; N g ; B 28 -206 483 473 ;  
C 104 ; WX 556 ; N h ; B 16 0 534 676 ;  
C 105 ; WX 278 ; N i ; B 16 0 255 691 ;  
C 106 ; WX 333 ; N j ; B -57 -203 263 691 ;  
C 107 ; WX 556 ; N k ; B 22 0 543 676 ;  
C 108 ; WX 278 ; N l ; B 16 0 255 676 ;  
C 109 ; WX 833 ; N m ; B 16 0 814 473 ;  
C 110 ; WX 556 ; N n ; B 21 0 539 473 ;  
C 111 ; WX 500 ; N o ; B 25 -14 476 473 ;  
C 112 ; WX 556 ; N p ; B 19 -205 524 473 ;  
C 113 ; WX 556 ; N q ; B 34 -205 536 473 ;  
C 114 ; WX 444 ; N r ; B 29 0 434 473 ;  
C 115 ; WX 389 ; N s ; B 25 -14 361 473 ;  
C 116 ; WX 333 ; N t ; B 20 -12 332 630 ;  
C 117 ; WX 556 ; N u ; B 16 -14 537 461 ;  
C 118 ; WX 500 ; N v ; B 21 -14 485 461 ;  
C 119 ; WX 722 ; N w ; B 23 -14 707 461 ;  
C 120 ; WX 500 ; N x ; B 12 0 484 461 ;  
C 121 ; WX 500 ; N y ; B 16 -205 480 461 ;  
C 122 ; WX 444 ; N z ; B 21 0 420 461 ;  
C 123 ; WX 394 ; N braceleft ; B 22 -175 340 698 ;  
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;  
C 125 ; WX 394 ; N braceright ; B 54 -175 372 698 ;  
C 126 ; WX 520 ; N asciitilde ; B 29 173 491 333 ;  
C 161 ; WX 333 ; N exclamdown ; B 82 -203 252 501 ;  
C 162 ; WX 500 ; N cent ; B 53 -140 458 588 ;  
C 163 ; WX 500 ; N sterling ; B 21 -14 477 684 ;  
C 164 ; WX 167 ; N fraction ; B -168 -12 329 688 ;  
C 165 ; WX 500 ; N yen ; B -64 0 547 676 ;  
C 166 ; WX 500 ; N florin ; B 0 -155 498 706 ;  
C 167 ; WX 500 ; N section ; B 57 -132 443 691 ;  
C 168 ; WX 500 ; N currency ; B -26 61 526 613 ;  
C 169 ; WX 278 ; N quotesingle ; B 75 404 204 691 ;  
C 170 ; WX 500 ; N quotedblleft ; B 32 356 486 691 ;  
C 171 ; WX 500 ; N guillemotleft ; B 23 36 473 415 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 51 36 305 415 ;  
C 173 ; WX 333 ; N guilsinglright ; B 28 36 282 415 ;  
C 174 ; WX 556 ; N fi ; B 14 0 536 691 ;  
C 175 ; WX 556 ; N fl ; B 14 0 536 691 ;  
C 177 ; WX 500 ; N endash ; B 0 181 500 271 ;  
C 178 ; WX 500 ; N dagger ; B 47 -134 453 691 ;  
C 179 ; WX 500 ; N daggerdbl ; B 45 -132 456 691 ;

C 180 ; WX 250 ; N periodcentered ; B 41 248 210 417 ;  
C 182 ; WX 540 ; N paragraph ; B 0 -186 519 676 ;  
C 183 ; WX 350 ; N bullet ; B 35 198 315 478 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 79 -180 263 155 ;  
C 185 ; WX 500 ; N quotedblbase ; B 14 -180 468 155 ;  
C 186 ; WX 500 ; N quotedblright ; B 14 356 468 691 ;  
C 187 ; WX 500 ; N guillemotright ; B 27 36 477 415 ;  
C 188 ; WX 1000 ; N ellipsis ; B 82 -13 917 156 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -29 995 706 ;  
C 191 ; WX 500 ; N questiondown ; B 55 -201 443 501 ;  
C 193 ; WX 333 ; N grave ; B 8 528 246 713 ;  
C 194 ; WX 333 ; N acute ; B 86 528 324 713 ;  
C 195 ; WX 333 ; N circumflex ; B -2 528 335 704 ;  
C 196 ; WX 333 ; N tilde ; B -16 547 349 674 ;  
C 197 ; WX 333 ; N macron ; B 1 565 331 637 ;  
C 198 ; WX 333 ; N breve ; B 15 528 318 691 ;  
C 199 ; WX 333 ; N dotaccent ; B 103 536 258 691 ;  
C 200 ; WX 333 ; N dieresis ; B -2 537 335 667 ;  
C 202 ; WX 333 ; N ring ; B 60 527 273 740 ;  
C 203 ; WX 333 ; N cedilla ; B 68 -218 294 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -13 528 425 713 ;  
C 206 ; WX 333 ; N ogonek ; B 90 -193 319 24 ;  
C 207 ; WX 333 ; N caron ; B -2 528 335 704 ;  
C 208 ; WX 1000 ; N emdash ; B 0 181 1000 271 ;  
C 225 ; WX 1000 ; N AE ; B 4 0 951 676 ;  
C 227 ; WX 300 ; N ordfeminine ; B -1 397 301 688 ;  
C 232 ; WX 667 ; N Lslash ; B 19 0 638 676 ;  
C 233 ; WX 778 ; N Oslash ; B 35 -74 743 737 ;  
C 234 ; WX 1000 ; N OE ; B 22 -5 981 684 ;  
C 235 ; WX 330 ; N ordmasculine ; B 18 397 312 688 ;  
C 241 ; WX 722 ; N ae ; B 33 -14 693 473 ;  
C 245 ; WX 278 ; N dotlessi ; B 16 0 255 461 ;  
C 248 ; WX 278 ; N lslash ; B -22 0 303 676 ;  
C 249 ; WX 500 ; N oslash ; B 25 -92 476 549 ;  
C 250 ; WX 722 ; N oe ; B 22 -14 696 473 ;  
C 251 ; WX 556 ; N germandbls ; B 19 -12 517 691 ;  
C -1 ; WX 389 ; N Idieresis ; B 20 0 370 877 ;  
C -1 ; WX 444 ; N eacute ; B 25 -14 426 713 ;  
C -1 ; WX 500 ; N abreve ; B 25 -14 488 691 ;  
C -1 ; WX 556 ; N uhungarumlaut ; B 16 -14 557 713 ;  
C -1 ; WX 444 ; N ecaron ; B 25 -14 426 704 ;  
C -1 ; WX 722 ; N Ydieresis ; B 15 0 699 877 ;  
C -1 ; WX 570 ; N divide ; B 33 -31 537 537 ;  
C -1 ; WX 722 ; N Yacute ; B 15 0 699 923 ;  
C -1 ; WX 722 ; N Acircumflex ; B 9 0 689 914 ;  
C -1 ; WX 500 ; N aacute ; B 25 -14 488 713 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 16 -19 701 914 ;  
C -1 ; WX 500 ; N yacute ; B 16 -205 480 713 ;

C -1 ; WX 389 ; N scommaaccent ; B 25 -218 361 473 ;  
C -1 ; WX 444 ; N ecircumflex ; B 25 -14 426 704 ;  
C -1 ; WX 722 ; N Uring ; B 16 -19 701 935 ;  
C -1 ; WX 722 ; N Udieresis ; B 16 -19 701 877 ;  
C -1 ; WX 500 ; N aogonek ; B 25 -193 504 473 ;  
C -1 ; WX 722 ; N Uacute ; B 16 -19 701 923 ;  
C -1 ; WX 556 ; N uogonek ; B 16 -193 539 461 ;  
C -1 ; WX 667 ; N Edieresis ; B 16 0 641 877 ;  
C -1 ; WX 722 ; N Dcroat ; B 6 0 690 676 ;  
C -1 ; WX 250 ; N commaaccent ; B 47 -218 203 -50 ;  
C -1 ; WX 747 ; N copyright ; B 26 -19 721 691 ;  
C -1 ; WX 667 ; N Emacron ; B 16 0 641 847 ;  
C -1 ; WX 444 ; N ccaron ; B 25 -14 430 704 ;  
C -1 ; WX 500 ; N aring ; B 25 -14 488 740 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 16 -188 701 676 ;  
C -1 ; WX 278 ; N lacute ; B 16 0 297 923 ;  
C -1 ; WX 500 ; N agrave ; B 25 -14 488 713 ;  
C -1 ; WX 667 ; N Tcommaaccent ; B 31 -218 636 676 ;  
C -1 ; WX 722 ; N Cacute ; B 49 -19 687 923 ;  
C -1 ; WX 500 ; N atilde ; B 25 -14 488 674 ;  
C -1 ; WX 667 ; N Edotaccent ; B 16 0 641 901 ;  
C -1 ; WX 389 ; N scaron ; B 25 -14 363 704 ;  
C -1 ; WX 389 ; N scedilla ; B 25 -218 361 473 ;  
C -1 ; WX 278 ; N iacute ; B 16 0 289 713 ;  
C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;  
C -1 ; WX 722 ; N Rcaron ; B 26 0 715 914 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 37 -218 755 691 ;  
C -1 ; WX 556 ; N ucircumflex ; B 16 -14 537 704 ;  
C -1 ; WX 500 ; N acircumflex ; B 25 -14 488 704 ;  
C -1 ; WX 722 ; N Amacron ; B 9 0 689 847 ;  
C -1 ; WX 444 ; N rcaron ; B 29 0 434 704 ;  
C -1 ; WX 444 ; N ccedilla ; B 25 -218 430 473 ;  
C -1 ; WX 667 ; N Zdotaccent ; B 28 0 634 901 ;  
C -1 ; WX 611 ; N Thorn ; B 16 0 600 676 ;  
C -1 ; WX 778 ; N Omacron ; B 35 -19 743 847 ;  
C -1 ; WX 722 ; N Racute ; B 26 0 715 923 ;  
C -1 ; WX 556 ; N Sacute ; B 35 -19 513 923 ;  
C -1 ; WX 672 ; N dcaron ; B 25 -14 681 682 ;  
C -1 ; WX 722 ; N Umacron ; B 16 -19 701 847 ;  
C -1 ; WX 556 ; N uring ; B 16 -14 537 740 ;  
C -1 ; WX 300 ; N threesuperior ; B 3 268 297 688 ;  
C -1 ; WX 778 ; N Ograve ; B 35 -19 743 923 ;  
C -1 ; WX 722 ; N Agrave ; B 9 0 689 923 ;  
C -1 ; WX 722 ; N Abreve ; B 9 0 689 901 ;  
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;  
C -1 ; WX 556 ; N uacute ; B 16 -14 537 713 ;  
C -1 ; WX 667 ; N Tcaron ; B 31 0 636 914 ;  
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;

C -1 ; WX 500 ; N ydieresis ; B 16 -205 480 667 ;  
C -1 ; WX 722 ; N Nacute ; B 16 -18 701 923 ;  
C -1 ; WX 278 ; N icircumflex ; B -37 0 300 704 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 16 0 641 914 ;  
C -1 ; WX 500 ; N adieresis ; B 25 -14 488 667 ;  
C -1 ; WX 444 ; N edieresis ; B 25 -14 426 667 ;  
C -1 ; WX 444 ; N cacute ; B 25 -14 430 713 ;  
C -1 ; WX 556 ; N nacute ; B 21 0 539 713 ;  
C -1 ; WX 556 ; N umacron ; B 16 -14 537 637 ;  
C -1 ; WX 722 ; N Ncaron ; B 16 -18 701 914 ;  
C -1 ; WX 389 ; N Iacute ; B 20 0 370 923 ;  
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;  
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;  
C -1 ; WX 747 ; N registered ; B 26 -19 721 691 ;  
C -1 ; WX 778 ; N Gbreve ; B 37 -19 755 901 ;  
C -1 ; WX 389 ; N Idotaccent ; B 20 0 370 901 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;  
C -1 ; WX 667 ; N Egrave ; B 16 0 641 923 ;  
C -1 ; WX 444 ; N racute ; B 29 0 434 713 ;  
C -1 ; WX 500 ; N omacron ; B 25 -14 476 637 ;  
C -1 ; WX 667 ; N Zacute ; B 28 0 634 923 ;  
C -1 ; WX 667 ; N Zcaron ; B 28 0 634 914 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;  
C -1 ; WX 722 ; N Eth ; B 6 0 690 676 ;  
C -1 ; WX 722 ; N Ccedilla ; B 49 -218 687 691 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 16 -218 255 676 ;  
C -1 ; WX 416 ; N tcaron ; B 20 -12 425 815 ;  
C -1 ; WX 444 ; N eogonek ; B 25 -193 426 473 ;  
C -1 ; WX 722 ; N Uogonek ; B 16 -193 701 676 ;  
C -1 ; WX 722 ; N Aacute ; B 9 0 689 923 ;  
C -1 ; WX 722 ; N Adieresis ; B 9 0 689 877 ;  
C -1 ; WX 444 ; N egrave ; B 25 -14 426 713 ;  
C -1 ; WX 444 ; N zacute ; B 21 0 420 713 ;  
C -1 ; WX 278 ; N iogonek ; B 16 -193 274 691 ;  
C -1 ; WX 778 ; N Oacute ; B 35 -19 743 923 ;  
C -1 ; WX 500 ; N oacute ; B 25 -14 476 713 ;  
C -1 ; WX 500 ; N amacron ; B 25 -14 488 637 ;  
C -1 ; WX 389 ; N sacute ; B 25 -14 361 713 ;  
C -1 ; WX 278 ; N idieresis ; B -37 0 300 667 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 35 -19 743 914 ;  
C -1 ; WX 722 ; N Ugrave ; B 16 -19 701 923 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 556 ; N thorn ; B 19 -205 524 676 ;  
C -1 ; WX 300 ; N twosuperior ; B 0 275 300 688 ;  
C -1 ; WX 778 ; N Odieresis ; B 35 -19 743 877 ;  
C -1 ; WX 556 ; N mu ; B 33 -206 536 461 ;  
C -1 ; WX 278 ; N igrave ; B -27 0 255 713 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B 25 -14 529 713 ;

C -1 ; WX 667 ; N Eogonek ; B 16 -193 644 676 ;  
C -1 ; WX 556 ; N dcroat ; B 25 -14 534 676 ;  
C -1 ; WX 750 ; N threequarters ; B 23 -12 733 688 ;  
C -1 ; WX 556 ; N Scedilla ; B 35 -218 513 692 ;  
C -1 ; WX 394 ; N lcaron ; B 16 0 412 682 ;  
C -1 ; WX 778 ; N Kcommaaccent ; B 30 -218 769 676 ;  
C -1 ; WX 667 ; N Lacute ; B 19 0 638 923 ;  
C -1 ; WX 1000 ; N trademark ; B 24 271 977 676 ;  
C -1 ; WX 444 ; N edotaccent ; B 25 -14 426 691 ;  
C -1 ; WX 389 ; N Igrave ; B 20 0 370 923 ;  
C -1 ; WX 389 ; N Iacron ; B 20 0 370 847 ;  
C -1 ; WX 667 ; N Lcaron ; B 19 0 652 682 ;  
C -1 ; WX 750 ; N onehalf ; B -7 -12 775 688 ;  
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;  
C -1 ; WX 500 ; N ocircumflex ; B 25 -14 476 704 ;  
C -1 ; WX 556 ; N ntilde ; B 21 0 539 674 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 16 -19 701 923 ;  
C -1 ; WX 667 ; N Eacute ; B 16 0 641 923 ;  
C -1 ; WX 444 ; N emacron ; B 25 -14 426 637 ;  
C -1 ; WX 500 ; N gbreve ; B 28 -206 483 691 ;  
C -1 ; WX 750 ; N onequarter ; B 28 -12 743 688 ;  
C -1 ; WX 556 ; N Scaron ; B 35 -19 513 914 ;  
C -1 ; WX 556 ; N Scommaaccent ; B 35 -218 513 692 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 35 -19 743 923 ;  
C -1 ; WX 400 ; N degree ; B 57 402 343 688 ;  
C -1 ; WX 500 ; N ograve ; B 25 -14 476 713 ;  
C -1 ; WX 722 ; N Ccaron ; B 49 -19 687 914 ;  
C -1 ; WX 556 ; N ugrave ; B 16 -14 537 713 ;  
C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;  
C -1 ; WX 722 ; N Dcaron ; B 14 0 690 914 ;  
C -1 ; WX 444 ; N rcommaaccent ; B 29 -218 434 473 ;  
C -1 ; WX 722 ; N Ntilde ; B 16 -18 701 884 ;  
C -1 ; WX 500 ; N otilde ; B 25 -14 476 674 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 26 -218 715 676 ;  
C -1 ; WX 667 ; N Lcommaaccent ; B 19 -218 638 676 ;  
C -1 ; WX 722 ; N Atilde ; B 9 0 689 884 ;  
C -1 ; WX 722 ; N Aogonek ; B 9 -193 699 690 ;  
C -1 ; WX 722 ; N Aring ; B 9 0 689 935 ;  
C -1 ; WX 778 ; N Otilde ; B 35 -19 743 884 ;  
C -1 ; WX 444 ; N zdotaccent ; B 21 0 420 691 ;  
C -1 ; WX 667 ; N Ecaron ; B 16 0 641 914 ;  
C -1 ; WX 389 ; N Iogonek ; B 20 -193 370 676 ;  
C -1 ; WX 556 ; N kcommaaccent ; B 22 -218 543 676 ;  
C -1 ; WX 570 ; N minus ; B 33 209 537 297 ;  
C -1 ; WX 389 ; N Icircumflex ; B 20 0 370 914 ;  
C -1 ; WX 556 ; N ncaron ; B 21 0 539 704 ;  
C -1 ; WX 333 ; N tcommaaccent ; B 20 -218 332 630 ;  
C -1 ; WX 570 ; N logicalnot ; B 33 108 537 399 ;

C -1 ; WX 500 ; N odieresis ; B 25 -14 476 667 ;  
C -1 ; WX 556 ; N udieresis ; B 16 -14 537 667 ;  
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;  
C -1 ; WX 500 ; N gcommaaccent ; B 28 -206 483 829 ;  
C -1 ; WX 500 ; N eth ; B 25 -14 476 691 ;  
C -1 ; WX 444 ; N zcaron ; B 21 0 420 704 ;  
C -1 ; WX 556 ; N ncommaaccent ; B 21 -218 539 473 ;  
C -1 ; WX 300 ; N onesuperior ; B 28 275 273 688 ;  
C -1 ; WX 278 ; N imacron ; B -8 0 272 637 ;  
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2242

KPX A C -55

KPX A Cacute -55

KPX A Ccaron -55

KPX A Ccedilla -55

KPX A G -55

KPX A Gbreve -55

KPX A Gcommaaccent -55

KPX A O -45

KPX A Oacute -45

KPX A Ocircumflex -45

KPX A Odieresis -45

KPX A Ograve -45

KPX A Ohungarumlaut -45

KPX A Omacron -45

KPX A Oslash -45

KPX A Otilde -45

KPX A Q -45

KPX A T -95

KPX A Tcaron -95

KPX A Tcommaaccent -95

KPX A U -50

KPX A Uacute -50

KPX A Ucircumflex -50

KPX A Udieresis -50

KPX A Ugrave -50

KPX A Uhungarumlaut -50

KPX A Umacron -50

KPX A Uogonek -50

KPX A Uring -50

KPX A V -145

KPX A W -130

KPX A Y -100

KPX A Yacute -100

KPX A Ydieresis -100

KPX A p -25

KPX A quoteright -74  
KPX A u -50  
KPX A uacute -50  
KPX A ucircumflex -50  
KPX A udieresis -50  
KPX A ugrave -50  
KPX A uhungarumlaut -50  
KPX A umacron -50  
KPX A uogonek -50  
KPX A uring -50  
KPX A v -100  
KPX A w -90  
KPX A y -74  
KPX A yacute -74  
KPX A ydieresis -74  
KPX Aacute C -55  
KPX Aacute Cacute -55  
KPX Aacute Ccaron -55  
KPX Aacute Ccedilla -55  
KPX Aacute G -55  
KPX Aacute Gbreve -55  
KPX Aacute Gcommaaccent -55  
KPX Aacute O -45  
KPX Aacute Oacute -45  
KPX Aacute Ocircumflex -45  
KPX Aacute Odieresis -45  
KPX Aacute Ograve -45  
KPX Aacute Ohungarumlaut -45  
KPX Aacute Omacron -45  
KPX Aacute Oslash -45  
KPX Aacute Otilde -45  
KPX Aacute Q -45  
KPX Aacute T -95  
KPX Aacute Tcaron -95  
KPX Aacute Tcommaaccent -95  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50  
KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -145  
KPX Aacute W -130  
KPX Aacute Y -100  
KPX Aacute Yacute -100

KPX Aacute Ydieresis -100  
KPX Aacute p -25  
KPX Aacute quoteright -74  
KPX Aacute u -50  
KPX Aacute uacute -50  
KPX Aacute ucircumflex -50  
KPX Aacute udieresis -50  
KPX Aacute ugrave -50  
KPX Aacute uhungarumlaut -50  
KPX Aacute umacron -50  
KPX Aacute uogonek -50  
KPX Aacute uring -50  
KPX Aacute v -100  
KPX Aacute w -90  
KPX Aacute y -74  
KPX Aacute yacute -74  
KPX Aacute ydieresis -74  
KPX Abreve C -55  
KPX Abreve Cacute -55  
KPX Abreve Ccaron -55  
KPX Abreve Ccedilla -55  
KPX Abreve G -55  
KPX Abreve Gbreve -55  
KPX Abreve Gcommaaccent -55  
KPX Abreve O -45  
KPX Abreve Oacute -45  
KPX Abreve Ocircumflex -45  
KPX Abreve Odieresis -45  
KPX Abreve Ograve -45  
KPX Abreve Ohungarumlaut -45  
KPX Abreve Omacron -45  
KPX Abreve Oslash -45  
KPX Abreve Otilde -45  
KPX Abreve Q -45  
KPX Abreve T -95  
KPX Abreve Tcaron -95  
KPX Abreve Tcommaaccent -95  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50  
KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -145  
KPX Abreve W -130



KPX Abreve Y -100  
KPX Abreve Yacute -100  
KPX Abreve Ydieresis -100  
KPX Abreve p -25  
KPX Abreve quoteright -74  
KPX Abreve u -50  
KPX Abreve uacute -50  
KPX Abreve ucircumflex -50  
KPX Abreve udieresis -50  
KPX Abreve ugrave -50  
KPX Abreve uhungarumlaut -50  
KPX Abreve umacron -50  
KPX Abreve uogonek -50  
KPX Abreve uring -50  
KPX Abreve v -100  
KPX Abreve w -90  
KPX Abreve y -74  
KPX Abreve yacute -74  
KPX Abreve ydieresis -74  
KPX Acircumflex C -55  
KPX Acircumflex Cacute -55  
KPX Acircumflex Ccaron -55  
KPX Acircumflex Ccedilla -55  
KPX Acircumflex G -55  
KPX Acircumflex Gbreve -55  
KPX Acircumflex Gcommaaccent -55  
KPX Acircumflex O -45  
KPX Acircumflex Oacute -45  
KPX Acircumflex Ocircumflex -45  
KPX Acircumflex Odieresis -45  
KPX Acircumflex Ograve -45  
KPX Acircumflex Ohungarumlaut -45  
KPX Acircumflex Omacron -45  
KPX Acircumflex Oslash -45  
KPX Acircumflex Otilde -45  
KPX Acircumflex Q -45  
KPX Acircumflex T -95  
KPX Acircumflex Tcaron -95  
KPX Acircumflex Tcommaaccent -95  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50  
KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50

KPX Acircumflex V -145  
KPX Acircumflex W -130  
KPX Acircumflex Y -100  
KPX Acircumflex Yacute -100  
KPX Acircumflex Ydieresis -100  
KPX Acircumflex p -25  
KPX Acircumflex quoteright -74  
KPX Acircumflex u -50  
KPX Acircumflex uacute -50  
KPX Acircumflex ucircumflex -50  
KPX Acircumflex udieresis -50  
KPX Acircumflex ugrave -50  
KPX Acircumflex uhungarumlaut -50  
KPX Acircumflex umacron -50  
KPX Acircumflex uogonek -50  
KPX Acircumflex uring -50  
KPX Acircumflex v -100  
KPX Acircumflex w -90  
KPX Acircumflex y -74  
KPX Acircumflex yacute -74  
KPX Acircumflex ydieresis -74  
KPX Adieresis C -55  
KPX Adieresis Cacute -55  
KPX Adieresis Ccaron -55  
KPX Adieresis Ccedilla -55  
KPX Adieresis G -55  
KPX Adieresis Gbreve -55  
KPX Adieresis Gcommaaccent -55  
KPX Adieresis O -45  
KPX Adieresis Oacute -45  
KPX Adieresis Ocircumflex -45  
KPX Adieresis Odieresis -45  
KPX Adieresis Ograve -45  
KPX Adieresis Ohungarumlaut -45  
KPX Adieresis Omacron -45  
KPX Adieresis Oslash -45  
KPX Adieresis Otilde -45  
KPX Adieresis Q -45  
KPX Adieresis T -95  
KPX Adieresis Tcaron -95  
KPX Adieresis Tcommaaccent -95  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50

KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50  
KPX Adieresis V -145  
KPX Adieresis W -130  
KPX Adieresis Y -100  
KPX Adieresis Yacute -100  
KPX Adieresis Ydieresis -100  
KPX Adieresis p -25  
KPX Adieresis quoteright -74  
KPX Adieresis u -50  
KPX Adieresis uacute -50  
KPX Adieresis ucircumflex -50  
KPX Adieresis udieresis -50  
KPX Adieresis ugrave -50  
KPX Adieresis uhungarumlaut -50  
KPX Adieresis umacron -50  
KPX Adieresis uogonek -50  
KPX Adieresis uring -50  
KPX Adieresis v -100  
KPX Adieresis w -90  
KPX Adieresis y -74  
KPX Adieresis yacute -74  
KPX Adieresis ydieresis -74  
KPX Agrave C -55  
KPX Agrave Cacute -55  
KPX Agrave Ccaron -55  
KPX Agrave Ccedilla -55  
KPX Agrave G -55  
KPX Agrave Gbreve -55  
KPX Agrave Gcommaaccent -55  
KPX Agrave O -45  
KPX Agrave Oacute -45  
KPX Agrave Ocircumflex -45  
KPX Agrave Odieresis -45  
KPX Agrave Ograve -45  
KPX Agrave Ohungarumlaut -45  
KPX Agrave Omacron -45  
KPX Agrave Oslash -45  
KPX Agrave Otilde -45  
KPX Agrave Q -45  
KPX Agrave T -95  
KPX Agrave Tcaron -95  
KPX Agrave Tcommaaccent -95  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50

KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50  
KPX Agrave Uogonek -50  
KPX Agrave Uring -50  
KPX Agrave V -145  
KPX Agrave W -130  
KPX Agrave Y -100  
KPX Agrave Yacute -100  
KPX Agrave Ydieresis -100  
KPX Agrave p -25  
KPX Agrave quoteright -74  
KPX Agrave u -50  
KPX Agrave uacute -50  
KPX Agrave ucircumflex -50  
KPX Agrave udieresis -50  
KPX Agrave ugrave -50  
KPX Agrave uhungarumlaut -50  
KPX Agrave umacron -50  
KPX Agrave uogonek -50  
KPX Agrave uring -50  
KPX Agrave v -100  
KPX Agrave w -90  
KPX Agrave y -74  
KPX Agrave yacute -74  
KPX Agrave ydieresis -74  
KPX Amacron C -55  
KPX Amacron Cacute -55  
KPX Amacron Ccaron -55  
KPX Amacron Ccedilla -55  
KPX Amacron G -55  
KPX Amacron Gbreve -55  
KPX Amacron Gcommaaccent -55  
KPX Amacron O -45  
KPX Amacron Oacute -45  
KPX Amacron Ocircumflex -45  
KPX Amacron Odieresis -45  
KPX Amacron Ograve -45  
KPX Amacron Ohungarumlaut -45  
KPX Amacron Omacron -45  
KPX Amacron Oslash -45  
KPX Amacron Otilde -45  
KPX Amacron Q -45  
KPX Amacron T -95  
KPX Amacron Tcaron -95  
KPX Amacron Tcommaaccent -95  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50

KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50  
KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -145  
KPX Amacron W -130  
KPX Amacron Y -100  
KPX Amacron Yacute -100  
KPX Amacron Ydieresis -100  
KPX Amacron p -25  
KPX Amacron quoteright -74  
KPX Amacron u -50  
KPX Amacron uacute -50  
KPX Amacron ucircumflex -50  
KPX Amacron udieresis -50  
KPX Amacron ugrave -50  
KPX Amacron uhungarumlaut -50  
KPX Amacron umacron -50  
KPX Amacron uogonek -50  
KPX Amacron uring -50  
KPX Amacron v -100  
KPX Amacron w -90  
KPX Amacron y -74  
KPX Amacron yacute -74  
KPX Amacron ydieresis -74  
KPX Aogonek C -55  
KPX Aogonek Cacute -55  
KPX Aogonek Ccaron -55  
KPX Aogonek Ccedilla -55  
KPX Aogonek G -55  
KPX Aogonek Gbreve -55  
KPX Aogonek Gcommaaccent -55  
KPX Aogonek O -45  
KPX Aogonek Oacute -45  
KPX Aogonek Ocircumflex -45  
KPX Aogonek Odieresis -45  
KPX Aogonek Ograve -45  
KPX Aogonek Ohungarumlaut -45  
KPX Aogonek Omacron -45  
KPX Aogonek Oslash -45  
KPX Aogonek Otilde -45  
KPX Aogonek Q -45  
KPX Aogonek T -95  
KPX Aogonek Tcaron -95  
KPX Aogonek Tcommaaccent -95  
KPX Aogonek U -50

KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50  
KPX Aogonek Umacron -50  
KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -145  
KPX Aogonek W -130  
KPX Aogonek Y -100  
KPX Aogonek Yacute -100  
KPX Aogonek Ydieresis -100  
KPX Aogonek p -25  
KPX Aogonek quoteright -74  
KPX Aogonek u -50  
KPX Aogonek uacute -50  
KPX Aogonek ucircumflex -50  
KPX Aogonek udieresis -50  
KPX Aogonek ugrave -50  
KPX Aogonek uhungarumlaut -50  
KPX Aogonek umacron -50  
KPX Aogonek uogonek -50  
KPX Aogonek uring -50  
KPX Aogonek v -100  
KPX Aogonek w -90  
KPX Aogonek y -34  
KPX Aogonek yacute -34  
KPX Aogonek ydieresis -34  
KPX Aring C -55  
KPX Aring Cacute -55  
KPX Aring Ccaron -55  
KPX Aring Ccedilla -55  
KPX Aring G -55  
KPX Aring Gbreve -55  
KPX Aring Gcommaaccent -55  
KPX Aring O -45  
KPX Aring Oacute -45  
KPX Aring Ocircumflex -45  
KPX Aring Odieresis -45  
KPX Aring Ograve -45  
KPX Aring Ohungarumlaut -45  
KPX Aring Omacron -45  
KPX Aring Oslash -45  
KPX Aring Otilde -45  
KPX Aring Q -45  
KPX Aring T -95  
KPX Aring Tcaron -95

KPX Aring Tcommaaccent -95  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50  
KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50  
KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -145  
KPX Aring W -130  
KPX Aring Y -100  
KPX Aring Yacute -100  
KPX Aring Ydieresis -100  
KPX Aring p -25  
KPX Aring quoteright -74  
KPX Aring u -50  
KPX Aring uacute -50  
KPX Aring ucircumflex -50  
KPX Aring udieresis -50  
KPX Aring ugrave -50  
KPX Aring uhungarumlaut -50  
KPX Aring umacron -50  
KPX Aring uogonek -50  
KPX Aring uring -50  
KPX Aring v -100  
KPX Aring w -90  
KPX Aring y -74  
KPX Aring yacute -74  
KPX Aring ydieresis -74  
KPX Atilde C -55  
KPX Atilde Cacute -55  
KPX Atilde Ccaron -55  
KPX Atilde Ccedilla -55  
KPX Atilde G -55  
KPX Atilde Gbreve -55  
KPX Atilde Gcommaaccent -55  
KPX Atilde O -45  
KPX Atilde Oacute -45  
KPX Atilde Ocircumflex -45  
KPX Atilde Odieresis -45  
KPX Atilde Ograve -45  
KPX Atilde Ohungarumlaut -45  
KPX Atilde Omacron -45  
KPX Atilde Oslash -45  
KPX Atilde Otilde -45  
KPX Atilde Q -45

KPX Atilde T -95  
KPX Atilde Tcaron -95  
KPX Atilde Tcommaaccent -95  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50  
KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50  
KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -145  
KPX Atilde W -130  
KPX Atilde Y -100  
KPX Atilde Yacute -100  
KPX Atilde Ydieresis -100  
KPX Atilde p -25  
KPX Atilde quoteright -74  
KPX Atilde u -50  
KPX Atilde uacute -50  
KPX Atilde ucircumflex -50  
KPX Atilde udieresis -50  
KPX Atilde ugrave -50  
KPX Atilde uhungarumlaut -50  
KPX Atilde umacron -50  
KPX Atilde uogonek -50  
KPX Atilde uring -50  
KPX Atilde v -100  
KPX Atilde w -90  
KPX Atilde y -74  
KPX Atilde yacute -74  
KPX Atilde ydieresis -74  
KPX B A -30  
KPX B Aacute -30  
KPX B Abreve -30  
KPX B Acircumflex -30  
KPX B Adieresis -30  
KPX B Agrave -30  
KPX B Amacron -30  
KPX B Aogonek -30  
KPX B Aring -30  
KPX B Atilde -30  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10



KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX D A -35  
KPX D Aacute -35  
KPX D Abreve -35  
KPX D Acircumflex -35  
KPX D Adieresis -35  
KPX D Agrave -35  
KPX D Amacron -35  
KPX D Aogonek -35  
KPX D Aring -35  
KPX D Atilde -35  
KPX D V -40  
KPX D W -40  
KPX D Y -40  
KPX D Yacute -40  
KPX D Ydieresis -40  
KPX D period -20  
KPX Dcaron A -35  
KPX Dcaron Aacute -35  
KPX Dcaron Abreve -35  
KPX Dcaron Acircumflex -35  
KPX Dcaron Adieresis -35  
KPX Dcaron Agrave -35  
KPX Dcaron Amacron -35  
KPX Dcaron Aogonek -35  
KPX Dcaron Aring -35  
KPX Dcaron Atilde -35  
KPX Dcaron V -40  
KPX Dcaron W -40  
KPX Dcaron Y -40  
KPX Dcaron Yacute -40  
KPX Dcaron Ydieresis -40  
KPX Dcaron period -20  
KPX Dcroat A -35  
KPX Dcroat Aacute -35  
KPX Dcroat Abreve -35  
KPX Dcroat Acircumflex -35  
KPX Dcroat Adieresis -35  
KPX Dcroat Agrave -35  
KPX Dcroat Amacron -35  
KPX Dcroat Aogonek -35  
KPX Dcroat Aring -35  
KPX Dcroat Atilde -35  
KPX Dcroat V -40  
KPX Dcroat W -40

KPX Dcroat Y -40  
KPX Dcroat Yacute -40  
KPX Dcroat Ydieresis -40  
KPX Dcroat period -20  
KPX F A -90  
KPX F Aacute -90  
KPX F Abreve -90  
KPX F Acircumflex -90  
KPX F Adieresis -90  
KPX F Agrave -90  
KPX F Amacron -90  
KPX F Aogonek -90  
KPX F Aring -90  
KPX F Atilde -90  
KPX F a -25  
KPX F aacute -25  
KPX F abreve -25  
KPX F acircumflex -25  
KPX F adieresis -25  
KPX F agrave -25  
KPX F amacron -25  
KPX F aogonek -25  
KPX F aring -25  
KPX F atilde -25  
KPX F comma -92  
KPX F e -25  
KPX F eacute -25  
KPX F ecaron -25  
KPX F ecircumflex -25  
KPX F edieresis -25  
KPX F edotaccent -25  
KPX F egrave -25  
KPX F emacron -25  
KPX F eogonek -25  
KPX F o -25  
KPX F oacute -25  
KPX F ocircumflex -25  
KPX F odieresis -25  
KPX F ograve -25  
KPX F ohungarumlaut -25  
KPX F omacron -25  
KPX F oslash -25  
KPX F otilde -25  
KPX F period -110  
KPX J A -30  
KPX J Aacute -30  
KPX J Abreve -30  
KPX J Acircumflex -30

KPX J Adieresis -30  
KPX J Agrave -30  
KPX J Amacron -30  
KPX J Aogonek -30  
KPX J Aring -30  
KPX J Atilde -30  
KPX J a -15  
KPX J aacute -15  
KPX J abreve -15  
KPX J acircumflex -15  
KPX J adieresis -15  
KPX J agrave -15  
KPX J amacron -15  
KPX J aogonek -15  
KPX J aring -15  
KPX J atilde -15  
KPX J e -15  
KPX J eacute -15  
KPX J ecaron -15  
KPX J ecircumflex -15  
KPX J edieresis -15  
KPX J edotaccent -15  
KPX J egrave -15  
KPX J emacron -15  
KPX J eogonek -15  
KPX J o -15  
KPX J oacute -15  
KPX J ocircumflex -15  
KPX J odieresis -15  
KPX J ograve -15  
KPX J ohungarumlaut -15  
KPX J omacron -15  
KPX J oslash -15  
KPX J otilde -15  
KPX J period -20  
KPX J u -15  
KPX J uacute -15  
KPX J ucircumflex -15  
KPX J udieresis -15  
KPX J ugrave -15  
KPX J uhungarumlaut -15  
KPX J umacron -15  
KPX J uogonek -15  
KPX J uring -15  
KPX K O -30  
KPX K Oacute -30  
KPX K Ocircumflex -30  
KPX K Odieresis -30

KPX K Ograve -30  
KPX K Ohungarumlaut -30  
KPX K Omacron -30  
KPX K Oslash -30  
KPX K Otilde -30  
KPX K e -25  
KPX K eacute -25  
KPX K ecaron -25  
KPX K ecircumflex -25  
KPX K edieresis -25  
KPX K edotaccent -25  
KPX K egrave -25  
KPX K emacron -25  
KPX K eogonek -25  
KPX K o -25  
KPX K oacute -25  
KPX K ocircumflex -25  
KPX K odieresis -25  
KPX K ograve -25  
KPX K ohungarumlaut -25  
KPX K omacron -25  
KPX K oslash -25  
KPX K otilde -25  
KPX K u -15  
KPX K uacute -15  
KPX K ucircumflex -15  
KPX K udieresis -15  
KPX K ugrave -15  
KPX K uhungarumlaut -15  
KPX K umacron -15  
KPX K uogonek -15  
KPX K uring -15  
KPX K y -45  
KPX K yacute -45  
KPX K ydieresis -45  
KPX Kcommaaccent O -30  
KPX Kcommaaccent Oacute -30  
KPX Kcommaaccent Ocircumflex -30  
KPX Kcommaaccent Odieresis -30  
KPX Kcommaaccent Ograve -30  
KPX Kcommaaccent Ohungarumlaut -30  
KPX Kcommaaccent Omacron -30  
KPX Kcommaaccent Oslash -30  
KPX Kcommaaccent Otilde -30  
KPX Kcommaaccent e -25  
KPX Kcommaaccent eacute -25  
KPX Kcommaaccent ecaron -25  
KPX Kcommaaccent ecircumflex -25

KPX Kcommaaccent edieresis -25  
KPX Kcommaaccent edotaccent -25  
KPX Kcommaaccent egrave -25  
KPX Kcommaaccent emacron -25  
KPX Kcommaaccent eogonek -25  
KPX Kcommaaccent o -25  
KPX Kcommaaccent oacute -25  
KPX Kcommaaccent ocircumflex -25  
KPX Kcommaaccent odieresis -25  
KPX Kcommaaccent ograve -25  
KPX Kcommaaccent ohungarumlaut -25  
KPX Kcommaaccent omacron -25  
KPX Kcommaaccent oslash -25  
KPX Kcommaaccent otilde -25  
KPX Kcommaaccent u -15  
KPX Kcommaaccent uacute -15  
KPX Kcommaaccent ucircumflex -15  
KPX Kcommaaccent udieresis -15  
KPX Kcommaaccent ugrave -15  
KPX Kcommaaccent uhungarumlaut -15  
KPX Kcommaaccent umacron -15  
KPX Kcommaaccent uogonek -15  
KPX Kcommaaccent uring -15  
KPX Kcommaaccent y -45  
KPX Kcommaaccent yacute -45  
KPX Kcommaaccent ydieresis -45  
KPX L T -92  
KPX L Tcaron -92  
KPX L Tcommaaccent -92  
KPX L V -92  
KPX L W -92  
KPX L Y -92  
KPX L Yacute -92  
KPX L Ydieresis -92  
KPX L quotedblright -20  
KPX L quoteright -110  
KPX L y -55  
KPX L yacute -55  
KPX L ydieresis -55  
KPX Lacute T -92  
KPX Lacute Tcaron -92  
KPX Lacute Tcommaaccent -92  
KPX Lacute V -92  
KPX Lacute W -92  
KPX Lacute Y -92  
KPX Lacute Yacute -92  
KPX Lacute Ydieresis -92  
KPX Lacute quotedblright -20

KPX Lacute quoteright -110  
KPX Lacute y -55  
KPX Lacute yacute -55  
KPX Lacute ydieresis -55  
KPX Lcommaaccent T -92  
KPX Lcommaaccent Tcaron -92  
KPX Lcommaaccent Tcommaaccent -92  
KPX Lcommaaccent V -92  
KPX Lcommaaccent W -92  
KPX Lcommaaccent Y -92  
KPX Lcommaaccent Yacute -92  
KPX Lcommaaccent Ydieresis -92  
KPX Lcommaaccent quotedblright -20  
KPX Lcommaaccent quoteright -110  
KPX Lcommaaccent y -55  
KPX Lcommaaccent yacute -55  
KPX Lcommaaccent ydieresis -55  
KPX Lslash T -92  
KPX Lslash Tcaron -92  
KPX Lslash Tcommaaccent -92  
KPX Lslash V -92  
KPX Lslash W -92  
KPX Lslash Y -92  
KPX Lslash Yacute -92  
KPX Lslash Ydieresis -92  
KPX Lslash quotedblright -20  
KPX Lslash quoteright -110  
KPX Lslash y -55  
KPX Lslash yacute -55  
KPX Lslash ydieresis -55  
KPX N A -20  
KPX N Aacute -20  
KPX N Abreve -20  
KPX N Acircumflex -20  
KPX N Adieresis -20  
KPX N Agrave -20  
KPX N Amacron -20  
KPX N Aogonek -20  
KPX N Aring -20  
KPX N Atilde -20  
KPX Nacute A -20  
KPX Nacute Aacute -20  
KPX Nacute Abreve -20  
KPX Nacute Acircumflex -20  
KPX Nacute Adieresis -20  
KPX Nacute Agrave -20  
KPX Nacute Amacron -20  
KPX Nacute Aogonek -20

KPX Nacute Aring -20  
KPX Nacute Atilde -20  
KPX Ncaron A -20  
KPX Ncaron Aacute -20  
KPX Ncaron Abreve -20  
KPX Ncaron Acircumflex -20  
KPX Ncaron Adieresis -20  
KPX Ncaron Agrave -20  
KPX Ncaron Amacron -20  
KPX Ncaron Aogonek -20  
KPX Ncaron Aring -20  
KPX Ncaron Atilde -20  
KPX Ncommaaccent A -20  
KPX Ncommaaccent Aacute -20  
KPX Ncommaaccent Abreve -20  
KPX Ncommaaccent Acircumflex -20  
KPX Ncommaaccent Adieresis -20  
KPX Ncommaaccent Agrave -20  
KPX Ncommaaccent Amacron -20  
KPX Ncommaaccent Aogonek -20  
KPX Ncommaaccent Aring -20  
KPX Ncommaaccent Atilde -20  
KPX Ntilde A -20  
KPX Ntilde Aacute -20  
KPX Ntilde Abreve -20  
KPX Ntilde Acircumflex -20  
KPX Ntilde Adieresis -20  
KPX Ntilde Agrave -20  
KPX Ntilde Amacron -20  
KPX Ntilde Aogonek -20  
KPX Ntilde Aring -20  
KPX Ntilde Atilde -20  
KPX O A -40  
KPX O Aacute -40  
KPX O Abreve -40  
KPX O Acircumflex -40  
KPX O Adieresis -40  
KPX O Agrave -40  
KPX O Amacron -40  
KPX O Aogonek -40  
KPX O Aring -40  
KPX O Atilde -40  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -50  
KPX O X -40

KPX O Y -50  
KPX O Yacute -50  
KPX O Ydieresis -50  
KPX Oacute A -40  
KPX Oacute Aacute -40  
KPX Oacute Abreve -40  
KPX Oacute Acircumflex -40  
KPX Oacute Adieresis -40  
KPX Oacute Agrave -40  
KPX Oacute Amacron -40  
KPX Oacute Aogonek -40  
KPX Oacute Aring -40  
KPX Oacute Atilde -40  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -50  
KPX Oacute X -40  
KPX Oacute Y -50  
KPX Oacute Yacute -50  
KPX Oacute Ydieresis -50  
KPX Ocircumflex A -40  
KPX Ocircumflex Aacute -40  
KPX Ocircumflex Abreve -40  
KPX Ocircumflex Acircumflex -40  
KPX Ocircumflex Adieresis -40  
KPX Ocircumflex Agrave -40  
KPX Ocircumflex Amacron -40  
KPX Ocircumflex Aogonek -40  
KPX Ocircumflex Aring -40  
KPX Ocircumflex Atilde -40  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -50  
KPX Ocircumflex X -40  
KPX Ocircumflex Y -50  
KPX Ocircumflex Yacute -50  
KPX Ocircumflex Ydieresis -50  
KPX Odieresis A -40  
KPX Odieresis Aacute -40  
KPX Odieresis Abreve -40  
KPX Odieresis Acircumflex -40  
KPX Odieresis Adieresis -40  
KPX Odieresis Agrave -40  
KPX Odieresis Amacron -40



KPX Odieresis Aogonek -40  
KPX Odieresis Aring -40  
KPX Odieresis Atilde -40  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -50  
KPX Odieresis X -40  
KPX Odieresis Y -50  
KPX Odieresis Yacute -50  
KPX Odieresis Ydieresis -50  
KPX Ograve A -40  
KPX Ograve Aacute -40  
KPX Ograve Abreve -40  
KPX Ograve Acircumflex -40  
KPX Ograve Adieresis -40  
KPX Ograve Agrave -40  
KPX Ograve Amacron -40  
KPX Ograve Aogonek -40  
KPX Ograve Aring -40  
KPX Ograve Atilde -40  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -50  
KPX Ograve X -40  
KPX Ograve Y -50  
KPX Ograve Yacute -50  
KPX Ograve Ydieresis -50  
KPX Ohungarumlaut A -40  
KPX Ohungarumlaut Aacute -40  
KPX Ohungarumlaut Abreve -40  
KPX Ohungarumlaut Acircumflex -40  
KPX Ohungarumlaut Adieresis -40  
KPX Ohungarumlaut Agrave -40  
KPX Ohungarumlaut Amacron -40  
KPX Ohungarumlaut Aogonek -40  
KPX Ohungarumlaut Aring -40  
KPX Ohungarumlaut Atilde -40  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -50  
KPX Ohungarumlaut X -40  
KPX Ohungarumlaut Y -50

KPX Ohungarumlaut Yacute -50  
KPX Ohungarumlaut Ydieresis -50  
KPX Omacron A -40  
KPX Omacron Aacute -40  
KPX Omacron Abreve -40  
KPX Omacron Acircumflex -40  
KPX Omacron Adieresis -40  
KPX Omacron Agrave -40  
KPX Omacron Amacron -40  
KPX Omacron Aogonek -40  
KPX Omacron Aring -40  
KPX Omacron Atilde -40  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -50  
KPX Omacron X -40  
KPX Omacron Y -50  
KPX Omacron Yacute -50  
KPX Omacron Ydieresis -50  
KPX Oslash A -40  
KPX Oslash Aacute -40  
KPX Oslash Abreve -40  
KPX Oslash Acircumflex -40  
KPX Oslash Adieresis -40  
KPX Oslash Agrave -40  
KPX Oslash Amacron -40  
KPX Oslash Aogonek -40  
KPX Oslash Aring -40  
KPX Oslash Atilde -40  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -50  
KPX Oslash X -40  
KPX Oslash Y -50  
KPX Oslash Yacute -50  
KPX Oslash Ydieresis -50  
KPX Otilde A -40  
KPX Otilde Aacute -40  
KPX Otilde Abreve -40  
KPX Otilde Acircumflex -40  
KPX Otilde Adieresis -40  
KPX Otilde Agrave -40  
KPX Otilde Amacron -40  
KPX Otilde Aogonek -40

KPX Otilde Aring -40  
KPX Otilde Atilde -40  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -50  
KPX Otilde X -40  
KPX Otilde Y -50  
KPX Otilde Yacute -50  
KPX Otilde Ydieresis -50  
KPX P A -74  
KPX P Aacute -74  
KPX P Abreve -74  
KPX P Acircumflex -74  
KPX P Adieresis -74  
KPX P Agrave -74  
KPX P Amacron -74  
KPX P Aogonek -74  
KPX P Aring -74  
KPX P Atilde -74  
KPX P a -10  
KPX P aacute -10  
KPX P abreve -10  
KPX P acircumflex -10  
KPX P adieresis -10  
KPX P agrave -10  
KPX P amacron -10  
KPX P aogonek -10  
KPX P aring -10  
KPX P atilde -10  
KPX P comma -92  
KPX P e -20  
KPX P eacute -20  
KPX P ecaron -20  
KPX P ecircumflex -20  
KPX P edieresis -20  
KPX P edotaccent -20  
KPX P egrave -20  
KPX P emacron -20  
KPX P eogonek -20  
KPX P o -20  
KPX P oacute -20  
KPX P ocircumflex -20  
KPX P odieresis -20  
KPX P ograve -20  
KPX P ohungarumlaut -20  
KPX P omacron -20

KPX P oslash -20  
KPX P otilde -20  
KPX P period -110  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX Q period -20  
KPX R O -30  
KPX R Oacute -30  
KPX R Ocircumflex -30  
KPX R Odieresis -30  
KPX R Ograve -30  
KPX R Ohungarumlaut -30  
KPX R Omacron -30  
KPX R Oslash -30  
KPX R Otilde -30  
KPX R T -40  
KPX R Tcaron -40  
KPX R Tcommaaccent -40  
KPX R U -30  
KPX R Uacute -30  
KPX R Ucircumflex -30  
KPX R Udieresis -30  
KPX R Ugrave -30  
KPX R Uhungarumlaut -30  
KPX R Umacron -30  
KPX R Uogonek -30  
KPX R Uring -30  
KPX R V -55  
KPX R W -35  
KPX R Y -35  
KPX R Yacute -35  
KPX R Ydieresis -35  
KPX Racute O -30  
KPX Racute Oacute -30  
KPX Racute Ocircumflex -30  
KPX Racute Odieresis -30  
KPX Racute Ograve -30  
KPX Racute Ohungarumlaut -30  
KPX Racute Omacron -30  
KPX Racute Oslash -30  
KPX Racute Otilde -30

KPX Racute T -40  
KPX Racute Tcaron -40  
KPX Racute Tcommaaccent -40  
KPX Racute U -30  
KPX Racute Uacute -30  
KPX Racute Ucircumflex -30  
KPX Racute Udieresis -30  
KPX Racute Ugrave -30  
KPX Racute Uhungarumlaut -30  
KPX Racute Umacron -30  
KPX Racute Uogonek -30  
KPX Racute Uring -30  
KPX Racute V -55  
KPX Racute W -35  
KPX Racute Y -35  
KPX Racute Yacute -35  
KPX Racute Ydieresis -35  
KPX Rcaron O -30  
KPX Rcaron Oacute -30  
KPX Rcaron Ocircumflex -30  
KPX Rcaron Odieresis -30  
KPX Rcaron Ograve -30  
KPX Rcaron Ohungarumlaut -30  
KPX Rcaron Omacron -30  
KPX Rcaron Oslash -30  
KPX Rcaron Otilde -30  
KPX Rcaron T -40  
KPX Rcaron Tcaron -40  
KPX Rcaron Tcommaaccent -40  
KPX Rcaron U -30  
KPX Rcaron Uacute -30  
KPX Rcaron Ucircumflex -30  
KPX Rcaron Udieresis -30  
KPX Rcaron Ugrave -30  
KPX Rcaron Uhungarumlaut -30  
KPX Rcaron Umacron -30  
KPX Rcaron Uogonek -30  
KPX Rcaron Uring -30  
KPX Rcaron V -55  
KPX Rcaron W -35  
KPX Rcaron Y -35  
KPX Rcaron Yacute -35  
KPX Rcaron Ydieresis -35  
KPX Rcommaaccent O -30  
KPX Rcommaaccent Oacute -30  
KPX Rcommaaccent Ocircumflex -30  
KPX Rcommaaccent Odieresis -30  
KPX Rcommaaccent Ograve -30

KPX Rcommaaccent Ohungarumlaut -30  
KPX Rcommaaccent Omacron -30  
KPX Rcommaaccent Oslash -30  
KPX Rcommaaccent Otilde -30  
KPX Rcommaaccent T -40  
KPX Rcommaaccent Tcaron -40  
KPX Rcommaaccent Tcommaaccent -40  
KPX Rcommaaccent U -30  
KPX Rcommaaccent Uacute -30  
KPX Rcommaaccent Ucircumflex -30  
KPX Rcommaaccent Udieresis -30  
KPX Rcommaaccent Ugrave -30  
KPX Rcommaaccent Uhungarumlaut -30  
KPX Rcommaaccent Umacron -30  
KPX Rcommaaccent Uogonek -30  
KPX Rcommaaccent Uring -30  
KPX Rcommaaccent V -55  
KPX Rcommaaccent W -35  
KPX Rcommaaccent Y -35  
KPX Rcommaaccent Yacute -35  
KPX Rcommaaccent Ydieresis -35  
KPX T A -90  
KPX T Aacute -90  
KPX T Abreve -90  
KPX T Acircumflex -90  
KPX T Adieresis -90  
KPX T Agrave -90  
KPX T Amacron -90  
KPX T Aogonek -90  
KPX T Aring -90  
KPX T Atilde -90  
KPX T O -18  
KPX T Oacute -18  
KPX T Ocircumflex -18  
KPX T Odieresis -18  
KPX T Ograve -18  
KPX T Ohungarumlaut -18  
KPX T Omacron -18  
KPX T Oslash -18  
KPX T Otilde -18  
KPX T a -92  
KPX T aacute -92  
KPX T abreve -52  
KPX T acircumflex -52  
KPX T adieresis -52  
KPX T agrave -52  
KPX T amacron -52  
KPX T aogonek -92

KPX T aring -92  
KPX T atilde -52  
KPX T colon -74  
KPX T comma -74  
KPX T e -92  
KPX T eacute -92  
KPX T ecaron -92  
KPX T ecircumflex -92  
KPX T edieresis -52  
KPX T edotaccent -92  
KPX T egrave -52  
KPX T emacron -52  
KPX T eogonek -92  
KPX T hyphen -92  
KPX T i -18  
KPX T iacute -18  
KPX T iogonek -18  
KPX T o -92  
KPX T oacute -92  
KPX T ocircumflex -92  
KPX T odieresis -92  
KPX T ograve -92  
KPX T ohungarumlaut -92  
KPX T omacron -92  
KPX T oslash -92  
KPX T otilde -92  
KPX T period -90  
KPX T r -74  
KPX T racute -74  
KPX T rcaron -74  
KPX T rcommaaccent -74  
KPX T semicolon -74  
KPX T u -92  
KPX T uacute -92  
KPX T ucircumflex -92  
KPX T udieresis -92  
KPX T ugrave -92  
KPX T uhungarumlaut -92  
KPX T umacron -92  
KPX T uogonek -92  
KPX T uring -92  
KPX T w -74  
KPX T y -34  
KPX T yacute -34  
KPX T ydieresis -34  
KPX Tcaron A -90  
KPX Tcaron Aacute -90  
KPX Tcaron Abreve -90

KPX Tcaron Acircumflex -90  
KPX Tcaron Adieresis -90  
KPX Tcaron Agrave -90  
KPX Tcaron Amacron -90  
KPX Tcaron Aogonek -90  
KPX Tcaron Aring -90  
KPX Tcaron Atilde -90  
KPX Tcaron O -18  
KPX Tcaron Oacute -18  
KPX Tcaron Ocircumflex -18  
KPX Tcaron Odieresis -18  
KPX Tcaron Ograve -18  
KPX Tcaron Ohungarumlaut -18  
KPX Tcaron Omacron -18  
KPX Tcaron Oslash -18  
KPX Tcaron Otilde -18  
KPX Tcaron a -92  
KPX Tcaron aacute -92  
KPX Tcaron abreve -52  
KPX Tcaron acircumflex -52  
KPX Tcaron adieresis -52  
KPX Tcaron agrave -52  
KPX Tcaron amacron -52  
KPX Tcaron aogonek -92  
KPX Tcaron aring -92  
KPX Tcaron atilde -52  
KPX Tcaron colon -74  
KPX Tcaron comma -74  
KPX Tcaron e -92  
KPX Tcaron eacute -92  
KPX Tcaron ecaron -92  
KPX Tcaron ecircumflex -92  
KPX Tcaron edieresis -52  
KPX Tcaron edotaccent -92  
KPX Tcaron egrave -52  
KPX Tcaron emacron -52  
KPX Tcaron eogonek -92  
KPX Tcaron hyphen -92  
KPX Tcaron i -18  
KPX Tcaron iacute -18  
KPX Tcaron iogonek -18  
KPX Tcaron o -92  
KPX Tcaron oacute -92  
KPX Tcaron ocircumflex -92  
KPX Tcaron odieresis -92  
KPX Tcaron ograve -92  
KPX Tcaron ohungarumlaut -92  
KPX Tcaron omacron -92



KPX Tcaron oslash -92  
KPX Tcaron otilde -92  
KPX Tcaron period -90  
KPX Tcaron r -74  
KPX Tcaron racute -74  
KPX Tcaron rcaron -74  
KPX Tcaron rcommaaccent -74  
KPX Tcaron semicolon -74  
KPX Tcaron u -92  
KPX Tcaron uacute -92  
KPX Tcaron ucircumflex -92  
KPX Tcaron udieresis -92  
KPX Tcaron ugrave -92  
KPX Tcaron uhungarumlaut -92  
KPX Tcaron umacron -92  
KPX Tcaron uogonek -92  
KPX Tcaron uring -92  
KPX Tcaron w -74  
KPX Tcaron y -34  
KPX Tcaron yacute -34  
KPX Tcaron ydieresis -34  
KPX Tcommaaccent A -90  
KPX Tcommaaccent Aacute -90  
KPX Tcommaaccent Abreve -90  
KPX Tcommaaccent Acircumflex -90  
KPX Tcommaaccent Adieresis -90  
KPX Tcommaaccent Agrave -90  
KPX Tcommaaccent Amacron -90  
KPX Tcommaaccent Aogonek -90  
KPX Tcommaaccent Aring -90  
KPX Tcommaaccent Atilde -90  
KPX Tcommaaccent O -18  
KPX Tcommaaccent Oacute -18  
KPX Tcommaaccent Ocircumflex -18  
KPX Tcommaaccent Odieresis -18  
KPX Tcommaaccent Ograve -18  
KPX Tcommaaccent Ohungarumlaut -18  
KPX Tcommaaccent Omacron -18  
KPX Tcommaaccent Oslash -18  
KPX Tcommaaccent Otilde -18  
KPX Tcommaaccent a -92  
KPX Tcommaaccent aacute -92  
KPX Tcommaaccent abreve -52  
KPX Tcommaaccent acircumflex -52  
KPX Tcommaaccent adieresis -52  
KPX Tcommaaccent agrave -52  
KPX Tcommaaccent amacron -52  
KPX Tcommaaccent aogonek -92

KPX Tcommaaccent aring -92  
KPX Tcommaaccent atilde -52  
KPX Tcommaaccent colon -74  
KPX Tcommaaccent comma -74  
KPX Tcommaaccent e -92  
KPX Tcommaaccent eacute -92  
KPX Tcommaaccent ecaron -92  
KPX Tcommaaccent ecircumflex -92  
KPX Tcommaaccent edieresis -52  
KPX Tcommaaccent edotaccent -92  
KPX Tcommaaccent egrave -52  
KPX Tcommaaccent emacron -52  
KPX Tcommaaccent eogonek -92  
KPX Tcommaaccent hyphen -92  
KPX Tcommaaccent i -18  
KPX Tcommaaccent iacute -18  
KPX Tcommaaccent iogonek -18  
KPX Tcommaaccent o -92  
KPX Tcommaaccent oacute -92  
KPX Tcommaaccent ocircumflex -92  
KPX Tcommaaccent odieresis -92  
KPX Tcommaaccent ograve -92  
KPX Tcommaaccent ohungarumlaut -92  
KPX Tcommaaccent omacron -92  
KPX Tcommaaccent oslash -92  
KPX Tcommaaccent otilde -92  
KPX Tcommaaccent period -90  
KPX Tcommaaccent r -74  
KPX Tcommaaccent racute -74  
KPX Tcommaaccent rcaron -74  
KPX Tcommaaccent rcommaaccent -74  
KPX Tcommaaccent semicolon -74  
KPX Tcommaaccent u -92  
KPX Tcommaaccent uacute -92  
KPX Tcommaaccent ucircumflex -92  
KPX Tcommaaccent udieresis -92  
KPX Tcommaaccent ugrave -92  
KPX Tcommaaccent uhungarumlaut -92  
KPX Tcommaaccent umacron -92  
KPX Tcommaaccent uogonek -92  
KPX Tcommaaccent uring -92  
KPX Tcommaaccent w -74  
KPX Tcommaaccent y -34  
KPX Tcommaaccent yacute -34  
KPX Tcommaaccent ydieresis -34  
KPX U A -60  
KPX U Aacute -60  
KPX U Abreve -60

KPX U Acircumflex -60  
KPX U Adieresis -60  
KPX U Agrave -60  
KPX U Amacron -60  
KPX U Aogonek -60  
KPX U Aring -60  
KPX U Atilde -60  
KPX U comma -50  
KPX U period -50  
KPX Uacute A -60  
KPX Uacute Aacute -60  
KPX Uacute Abreve -60  
KPX Uacute Acircumflex -60  
KPX Uacute Adieresis -60  
KPX Uacute Agrave -60  
KPX Uacute Amacron -60  
KPX Uacute Aogonek -60  
KPX Uacute Aring -60  
KPX Uacute Atilde -60  
KPX Uacute comma -50  
KPX Uacute period -50  
KPX Ucircumflex A -60  
KPX Ucircumflex Aacute -60  
KPX Ucircumflex Abreve -60  
KPX Ucircumflex Acircumflex -60  
KPX Ucircumflex Adieresis -60  
KPX Ucircumflex Agrave -60  
KPX Ucircumflex Amacron -60  
KPX Ucircumflex Aogonek -60  
KPX Ucircumflex Aring -60  
KPX Ucircumflex Atilde -60  
KPX Ucircumflex comma -50  
KPX Ucircumflex period -50  
KPX Udieresis A -60  
KPX Udieresis Aacute -60  
KPX Udieresis Abreve -60  
KPX Udieresis Acircumflex -60  
KPX Udieresis Adieresis -60  
KPX Udieresis Agrave -60  
KPX Udieresis Amacron -60  
KPX Udieresis Aogonek -60  
KPX Udieresis Aring -60  
KPX Udieresis Atilde -60  
KPX Udieresis comma -50  
KPX Udieresis period -50  
KPX Ugrave A -60  
KPX Ugrave Aacute -60  
KPX Ugrave Abreve -60

KPX Ugrave Acircumflex -60  
KPX Ugrave Adieresis -60  
KPX Ugrave Agrave -60  
KPX Ugrave Amacron -60  
KPX Ugrave Aogonek -60  
KPX Ugrave Aring -60  
KPX Ugrave Atilde -60  
KPX Ugrave comma -50  
KPX Ugrave period -50  
KPX Uhungarumlaut A -60  
KPX Uhungarumlaut Aacute -60  
KPX Uhungarumlaut Abreve -60  
KPX Uhungarumlaut Acircumflex -60  
KPX Uhungarumlaut Adieresis -60  
KPX Uhungarumlaut Agrave -60  
KPX Uhungarumlaut Amacron -60  
KPX Uhungarumlaut Aogonek -60  
KPX Uhungarumlaut Aring -60  
KPX Uhungarumlaut Atilde -60  
KPX Uhungarumlaut comma -50  
KPX Uhungarumlaut period -50  
KPX Umacron A -60  
KPX Umacron Aacute -60  
KPX Umacron Abreve -60  
KPX Umacron Acircumflex -60  
KPX Umacron Adieresis -60  
KPX Umacron Agrave -60  
KPX Umacron Amacron -60  
KPX Umacron Aogonek -60  
KPX Umacron Aring -60  
KPX Umacron Atilde -60  
KPX Umacron comma -50  
KPX Umacron period -50  
KPX Uogonek A -60  
KPX Uogonek Aacute -60  
KPX Uogonek Abreve -60  
KPX Uogonek Acircumflex -60  
KPX Uogonek Adieresis -60  
KPX Uogonek Agrave -60  
KPX Uogonek Amacron -60  
KPX Uogonek Aogonek -60  
KPX Uogonek Aring -60  
KPX Uogonek Atilde -60  
KPX Uogonek comma -50  
KPX Uogonek period -50  
KPX Uring A -60  
KPX Uring Aacute -60  
KPX Uring Abreve -60

KPX Uring Acircumflex -60  
KPX Uring Adieresis -60  
KPX Uring Agrave -60  
KPX Uring Amacron -60  
KPX Uring Aogonek -60  
KPX Uring Aring -60  
KPX Uring Atilde -60  
KPX Uring comma -50  
KPX Uring period -50  
KPX V A -135  
KPX V Aacute -135  
KPX V Abreve -135  
KPX V Acircumflex -135  
KPX V Adieresis -135  
KPX V Agrave -135  
KPX V Amacron -135  
KPX V Aogonek -135  
KPX V Aring -135  
KPX V Atilde -135  
KPX V G -30  
KPX V Gbreve -30  
KPX V Gcommaaccent -30  
KPX V O -45  
KPX V Oacute -45  
KPX V Ocircumflex -45  
KPX V Odieresis -45  
KPX V Ograve -45  
KPX V Ohungarumlaut -45  
KPX V Omacron -45  
KPX V Oslash -45  
KPX V Otilde -45  
KPX V a -92  
KPX V aacute -92  
KPX V abreve -92  
KPX V acircumflex -92  
KPX V adieresis -92  
KPX V agrave -92  
KPX V amacron -92  
KPX V aogonek -92  
KPX V aring -92  
KPX V atilde -92  
KPX V colon -92  
KPX V comma -129  
KPX V e -100  
KPX V eacute -100  
KPX V ecaron -100  
KPX V ecircumflex -100  
KPX V edieresis -100

KPX V edotaccent -100  
KPX V egrave -100  
KPX V emacron -100  
KPX V eogonek -100  
KPX V hyphen -74  
KPX V i -37  
KPX V iacute -37  
KPX V icircumflex -37  
KPX V idieresis -37  
KPX V igrave -37  
KPX V imacron -37  
KPX V iogonek -37  
KPX V o -100  
KPX V oacute -100  
KPX V ocircumflex -100  
KPX V odieresis -100  
KPX V ograve -100  
KPX V ohungarumlaut -100  
KPX V omacron -100  
KPX V oslash -100  
KPX V otilde -100  
KPX V period -145  
KPX V semicolon -92  
KPX V u -92  
KPX V uacute -92  
KPX V ucircumflex -92  
KPX V udieresis -92  
KPX V ugrave -92  
KPX V uhungarumlaut -92  
KPX V umacron -92  
KPX V uogonek -92  
KPX V uring -92  
KPX W A -120  
KPX W Aacute -120  
KPX W Abreve -120  
KPX W Acircumflex -120  
KPX W Adieresis -120  
KPX W Agrave -120  
KPX W Amacron -120  
KPX W Aogonek -120  
KPX W Aring -120  
KPX W Atilde -120  
KPX W O -10  
KPX W Oacute -10  
KPX W Ocircumflex -10  
KPX W Odieresis -10  
KPX W Ograve -10  
KPX W Ohungarumlaut -10

KPX W Omacron -10  
KPX W Oslash -10  
KPX W Otilde -10  
KPX W a -65  
KPX W aacute -65  
KPX W abreve -65  
KPX W acircumflex -65  
KPX W adieresis -65  
KPX W agrave -65  
KPX W amacron -65  
KPX W aogonek -65  
KPX W aring -65  
KPX W atilde -65  
KPX W colon -55  
KPX W comma -92  
KPX W e -65  
KPX W eacute -65  
KPX W ecaron -65  
KPX W ecircumflex -65  
KPX W edieresis -65  
KPX W edotaccent -65  
KPX W egrave -65  
KPX W emacron -65  
KPX W eogonek -65  
KPX W hyphen -37  
KPX W i -18  
KPX W iacute -18  
KPX W iogonek -18  
KPX W o -75  
KPX W oacute -75  
KPX W ocircumflex -75  
KPX W odieresis -75  
KPX W ograve -75  
KPX W ohungarumlaut -75  
KPX W omacron -75  
KPX W oslash -75  
KPX W otilde -75  
KPX W period -92  
KPX W semicolon -55  
KPX W u -50  
KPX W uacute -50  
KPX W ucircumflex -50  
KPX W udieresis -50  
KPX W ugrave -50  
KPX W uhungarumlaut -50  
KPX W umacron -50  
KPX W uogonek -50  
KPX W uring -50

KPX W y -60  
KPX W yacute -60  
KPX W ydieresis -60  
KPX Y A -110  
KPX Y Aacute -110  
KPX Y Abreve -110  
KPX Y Acircumflex -110  
KPX Y Adieresis -110  
KPX Y Agrave -110  
KPX Y Amacron -110  
KPX Y Aogonek -110  
KPX Y Aring -110  
KPX Y Atilde -110  
KPX Y O -35  
KPX Y Oacute -35  
KPX Y Ocircumflex -35  
KPX Y Odieresis -35  
KPX Y Ograve -35  
KPX Y Ohungarumlaut -35  
KPX Y Omacron -35  
KPX Y Oslash -35  
KPX Y Otilde -35  
KPX Y a -85  
KPX Y aacute -85  
KPX Y abreve -85  
KPX Y acircumflex -85  
KPX Y adieresis -85  
KPX Y agrave -85  
KPX Y amacron -85  
KPX Y aogonek -85  
KPX Y aring -85  
KPX Y atilde -85  
KPX Y colon -92  
KPX Y comma -92  
KPX Y e -111  
KPX Y eacute -111  
KPX Y ecaron -111  
KPX Y ecircumflex -111  
KPX Y edieresis -71  
KPX Y edotaccent -111  
KPX Y egrave -71  
KPX Y emacron -71  
KPX Y eogonek -111  
KPX Y hyphen -92  
KPX Y i -37  
KPX Y iacute -37  
KPX Y iogonek -37  
KPX Y o -111



KPX Y oacute -111  
KPX Y ocircumflex -111  
KPX Y odieresis -111  
KPX Y ograve -111  
KPX Y ohungarumlaut -111  
KPX Y omacron -111  
KPX Y oslash -111  
KPX Y otilde -111  
KPX Y period -92  
KPX Y semicolon -92  
KPX Y u -92  
KPX Y uacute -92  
KPX Y ucircumflex -92  
KPX Y udieresis -92  
KPX Y ugrave -92  
KPX Y uhungarumlaut -92  
KPX Y umacron -92  
KPX Y uogonek -92  
KPX Y uring -92  
KPX Yacute A -110  
KPX Yacute Aacute -110  
KPX Yacute Abreve -110  
KPX Yacute Acircumflex -110  
KPX Yacute Adieresis -110  
KPX Yacute Agrave -110  
KPX Yacute Amacron -110  
KPX Yacute Aogonek -110  
KPX Yacute Aring -110  
KPX Yacute Atilde -110  
KPX Yacute O -35  
KPX Yacute Oacute -35  
KPX Yacute Ocircumflex -35  
KPX Yacute Odieresis -35  
KPX Yacute Ograve -35  
KPX Yacute Ohungarumlaut -35  
KPX Yacute Omacron -35  
KPX Yacute Oslash -35  
KPX Yacute Otilde -35  
KPX Yacute a -85  
KPX Yacute aacute -85  
KPX Yacute abreve -85  
KPX Yacute acircumflex -85  
KPX Yacute adieresis -85  
KPX Yacute agrave -85  
KPX Yacute amacron -85  
KPX Yacute aogonek -85  
KPX Yacute aring -85  
KPX Yacute atilde -85

KPX Yacute colon -92  
KPX Yacute comma -92  
KPX Yacute e -111  
KPX Yacute eacute -111  
KPX Yacute ecaron -111  
KPX Yacute ecircumflex -111  
KPX Yacute edieresis -71  
KPX Yacute edotaccent -111  
KPX Yacute egrave -71  
KPX Yacute emacron -71  
KPX Yacute eogonek -111  
KPX Yacute hyphen -92  
KPX Yacute i -37  
KPX Yacute iacute -37  
KPX Yacute iogonek -37  
KPX Yacute o -111  
KPX Yacute oacute -111  
KPX Yacute ocircumflex -111  
KPX Yacute odieresis -111  
KPX Yacute ograve -111  
KPX Yacute ohungarumlaut -111  
KPX Yacute omacron -111  
KPX Yacute oslash -111  
KPX Yacute otilde -111  
KPX Yacute period -92  
KPX Yacute semicolon -92  
KPX Yacute u -92  
KPX Yacute uacute -92  
KPX Yacute ucircumflex -92  
KPX Yacute udieresis -92  
KPX Yacute ugrave -92  
KPX Yacute uhungarumlaut -92  
KPX Yacute umacron -92  
KPX Yacute uogonek -92  
KPX Yacute uring -92  
KPX Ydieresis A -110  
KPX Ydieresis Aacute -110  
KPX Ydieresis Abreve -110  
KPX Ydieresis Acircumflex -110  
KPX Ydieresis Adieresis -110  
KPX Ydieresis Agrave -110  
KPX Ydieresis Amacron -110  
KPX Ydieresis Aogonek -110  
KPX Ydieresis Aring -110  
KPX Ydieresis Atilde -110  
KPX Ydieresis O -35  
KPX Ydieresis Oacute -35  
KPX Ydieresis Ocircumflex -35

KPX Ydieresis Odieresis -35  
KPX Ydieresis Ograve -35  
KPX Ydieresis Ohungarumlaut -35  
KPX Ydieresis Omacron -35  
KPX Ydieresis Oslash -35  
KPX Ydieresis Otilde -35  
KPX Ydieresis a -85  
KPX Ydieresis aacute -85  
KPX Ydieresis abreve -85  
KPX Ydieresis acircumflex -85  
KPX Ydieresis adieresis -85  
KPX Ydieresis agrave -85  
KPX Ydieresis amacron -85  
KPX Ydieresis aogonek -85  
KPX Ydieresis aring -85  
KPX Ydieresis atilde -85  
KPX Ydieresis colon -92  
KPX Ydieresis comma -92  
KPX Ydieresis e -111  
KPX Ydieresis eacute -111  
KPX Ydieresis ecaron -111  
KPX Ydieresis ecircumflex -111  
KPX Ydieresis edieresis -71  
KPX Ydieresis edotaccent -111  
KPX Ydieresis egrave -71  
KPX Ydieresis emacron -71  
KPX Ydieresis eogonek -111  
KPX Ydieresis hyphen -92  
KPX Ydieresis i -37  
KPX Ydieresis iacute -37  
KPX Ydieresis iogonek -37  
KPX Ydieresis o -111  
KPX Ydieresis oacute -111  
KPX Ydieresis ocircumflex -111  
KPX Ydieresis odieresis -111  
KPX Ydieresis ograve -111  
KPX Ydieresis ohungarumlaut -111  
KPX Ydieresis omacron -111  
KPX Ydieresis oslash -111  
KPX Ydieresis otilde -111  
KPX Ydieresis period -92  
KPX Ydieresis semicolon -92  
KPX Ydieresis u -92  
KPX Ydieresis uacute -92  
KPX Ydieresis ucircumflex -92  
KPX Ydieresis udieresis -92  
KPX Ydieresis ugrave -92  
KPX Ydieresis uhungarumlaut -92

KPX Ydieresis umacron -92  
KPX Ydieresis uogonek -92  
KPX Ydieresis uring -92  
KPX a v -25  
KPX aacute v -25  
KPX abreve v -25  
KPX acircumflex v -25  
KPX adieresis v -25  
KPX agrave v -25  
KPX amacron v -25  
KPX aogonek v -25  
KPX aring v -25  
KPX atilde v -25  
KPX b b -10  
KPX b period -40  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX b v -15  
KPX comma quotedblright -45  
KPX comma quoteright -55  
KPX d w -15  
KPX dcroat w -15  
KPX e v -15  
KPX eacute v -15  
KPX ecaron v -15  
KPX ecircumflex v -15  
KPX edieresis v -15  
KPX edotaccent v -15  
KPX egrave v -15  
KPX emacron v -15  
KPX eogonek v -15  
KPX f comma -15  
KPX f dotlessi -35  
KPX f i -25  
KPX f o -25  
KPX f oacute -25  
KPX f ocircumflex -25  
KPX f odieresis -25  
KPX f ograve -25  
KPX f ohungarumlaut -25  
KPX f omacron -25

KPX f oslash -25  
KPX f otilde -25  
KPX f period -15  
KPX f quotedblright 50  
KPX f quoteright 55  
KPX g period -15  
KPX gbreve period -15  
KPX gcommaaccent period -15  
KPX h y -15  
KPX h yacute -15  
KPX h ydieresis -15  
KPX i v -10  
KPX iacute v -10  
KPX icircumflex v -10  
KPX idieresis v -10  
KPX igrave v -10  
KPX imacron v -10  
KPX iogonek v -10  
KPX k e -10  
KPX k eacute -10  
KPX k ecaron -10  
KPX k ecircumflex -10  
KPX k edieresis -10  
KPX k edotaccent -10  
KPX k egrave -10  
KPX k emacron -10  
KPX k eogonek -10  
KPX k o -15  
KPX k oacute -15  
KPX k ocircumflex -15  
KPX k odieresis -15  
KPX k ograve -15  
KPX k ohungarumlaut -15  
KPX k omacron -15  
KPX k oslash -15  
KPX k otilde -15  
KPX k y -15  
KPX k yacute -15  
KPX k ydieresis -15  
KPX kcommaaccent e -10  
KPX kcommaaccent eacute -10  
KPX kcommaaccent ecaron -10  
KPX kcommaaccent ecircumflex -10  
KPX kcommaaccent edieresis -10  
KPX kcommaaccent edotaccent -10  
KPX kcommaaccent egrave -10  
KPX kcommaaccent emacron -10  
KPX kcommaaccent eogonek -10

KPX kcommaaccent o -15  
KPX kcommaaccent oacute -15  
KPX kcommaaccent ocircumflex -15  
KPX kcommaaccent odieresis -15  
KPX kcommaaccent ograve -15  
KPX kcommaaccent ohungarumlaut -15  
KPX kcommaaccent omacron -15  
KPX kcommaaccent oslash -15  
KPX kcommaaccent otilde -15  
KPX kcommaaccent y -15  
KPX kcommaaccent yacute -15  
KPX kcommaaccent ydieresis -15  
KPX n v -40  
KPX nacute v -40  
KPX ncaron v -40  
KPX ncommaaccent v -40  
KPX ntilde v -40  
KPX o v -10  
KPX o w -10  
KPX oacute v -10  
KPX oacute w -10  
KPX ocircumflex v -10  
KPX ocircumflex w -10  
KPX odieresis v -10  
KPX odieresis w -10  
KPX ograve v -10  
KPX ograve w -10  
KPX ohungarumlaut v -10  
KPX ohungarumlaut w -10  
KPX omacron v -10  
KPX omacron w -10  
KPX oslash v -10  
KPX oslash w -10  
KPX otilde v -10  
KPX otilde w -10  
KPX period quotedblright -55  
KPX period quoteright -55  
KPX quotedblleft A -10  
KPX quotedblleft Aacute -10  
KPX quotedblleft Abreve -10  
KPX quotedblleft Acircumflex -10  
KPX quotedblleft Adieresis -10  
KPX quotedblleft Agrave -10  
KPX quotedblleft Amacron -10  
KPX quotedblleft Aogonek -10  
KPX quotedblleft Aring -10  
KPX quotedblleft Atilde -10  
KPX quoteleft A -10

KPX quoteleft Aacute -10  
KPX quoteleft Abreve -10  
KPX quoteleft Acircumflex -10  
KPX quoteleft Adieresis -10  
KPX quoteleft Agrave -10  
KPX quoteleft Amacron -10  
KPX quoteleft Aogonek -10  
KPX quoteleft Aring -10  
KPX quoteleft Atilde -10  
KPX quoteleft quoteleft -63  
KPX quoteright d -20  
KPX quoteright dcroat -20  
KPX quoteright quoteright -63  
KPX quoteright r -20  
KPX quoteright racute -20  
KPX quoteright rcaron -20  
KPX quoteright rcommaaccent -20  
KPX quoteright s -37  
KPX quoteright sacute -37  
KPX quoteright scaron -37  
KPX quoteright scedilla -37  
KPX quoteright scommaaccent -37  
KPX quoteright space -74  
KPX quoteright v -20  
KPX r c -18  
KPX r cacute -18  
KPX r ccaron -18  
KPX r ccedilla -18  
KPX r comma -92  
KPX r e -18  
KPX r eacute -18  
KPX r ecaron -18  
KPX r ecircumflex -18  
KPX r edieresis -18  
KPX r edotaccent -18  
KPX r egrave -18  
KPX r emacron -18  
KPX r eogonek -18  
KPX r g -10  
KPX r gbreve -10  
KPX r gcommaaccent -10  
KPX r hyphen -37  
KPX r n -15  
KPX r nacute -15  
KPX r ncaron -15  
KPX r ncommaaccent -15  
KPX r ntilde -15  
KPX r o -18

KPX r oacute -18  
KPX r ocircumflex -18  
KPX r odieresis -18  
KPX r ograve -18  
KPX r ohungarumlaut -18  
KPX r omacron -18  
KPX r oslash -18  
KPX r otilde -18  
KPX r p -10  
KPX r period -100  
KPX r q -18  
KPX r v -10  
KPX racute c -18  
KPX racute cacute -18  
KPX racute ccaron -18  
KPX racute ccedilla -18  
KPX racute comma -92  
KPX racute e -18  
KPX racute eacute -18  
KPX racute ecaron -18  
KPX racute ecircumflex -18  
KPX racute edieresis -18  
KPX racute edotaccent -18  
KPX racute egrave -18  
KPX racute emacron -18  
KPX racute eogonek -18  
KPX racute g -10  
KPX racute gbreve -10  
KPX racute gcommaaccent -10  
KPX racute hyphen -37  
KPX racute n -15  
KPX racute nacute -15  
KPX racute ncaron -15  
KPX racute ncommaaccent -15  
KPX racute ntilde -15  
KPX racute o -18  
KPX racute oacute -18  
KPX racute ocircumflex -18  
KPX racute odieresis -18  
KPX racute ograve -18  
KPX racute ohungarumlaut -18  
KPX racute omacron -18  
KPX racute oslash -18  
KPX racute otilde -18  
KPX racute p -10  
KPX racute period -100  
KPX racute q -18  
KPX racute v -10



KPX rcaron c -18  
KPX rcaron cacute -18  
KPX rcaron ccaron -18  
KPX rcaron ccedilla -18  
KPX rcaron comma -92  
KPX rcaron e -18  
KPX rcaron eacute -18  
KPX rcaron ecaron -18  
KPX rcaron ecircumflex -18  
KPX rcaron edieresis -18  
KPX rcaron edotaccent -18  
KPX rcaron egrave -18  
KPX rcaron emacron -18  
KPX rcaron eogonek -18  
KPX rcaron g -10  
KPX rcaron gbreve -10  
KPX rcaron gcommaaccent -10  
KPX rcaron hyphen -37  
KPX rcaron n -15  
KPX rcaron nacute -15  
KPX rcaron ncaron -15  
KPX rcaron ncommaaccent -15  
KPX rcaron ntilde -15  
KPX rcaron o -18  
KPX rcaron oacute -18  
KPX rcaron ocircumflex -18  
KPX rcaron odieresis -18  
KPX rcaron ograve -18  
KPX rcaron ohungarumlaut -18  
KPX rcaron omacron -18  
KPX rcaron oslash -18  
KPX rcaron otilde -18  
KPX rcaron p -10  
KPX rcaron period -100  
KPX rcaron q -18  
KPX rcaron v -10  
KPX rcommaaccent c -18  
KPX rcommaaccent cacute -18  
KPX rcommaaccent ccaron -18  
KPX rcommaaccent ccedilla -18  
KPX rcommaaccent comma -92  
KPX rcommaaccent e -18  
KPX rcommaaccent eacute -18  
KPX rcommaaccent ecaron -18  
KPX rcommaaccent ecircumflex -18  
KPX rcommaaccent edieresis -18  
KPX rcommaaccent edotaccent -18  
KPX rcommaaccent egrave -18

KPX rcommaaccent emacron -18  
KPX rcommaaccent eogonek -18  
KPX rcommaaccent g -10  
KPX rcommaaccent gbreve -10  
KPX rcommaaccent gcommaaccent -10  
KPX rcommaaccent hyphen -37  
KPX rcommaaccent n -15  
KPX rcommaaccent nacute -15  
KPX rcommaaccent ncaron -15  
KPX rcommaaccent ncommaaccent -15  
KPX rcommaaccent ntilde -15  
KPX rcommaaccent o -18  
KPX rcommaaccent oacute -18  
KPX rcommaaccent ocircumflex -18  
KPX rcommaaccent odieresis -18  
KPX rcommaaccent ograve -18  
KPX rcommaaccent ohungarumlaut -18  
KPX rcommaaccent omacron -18  
KPX rcommaaccent oslash -18  
KPX rcommaaccent otilde -18  
KPX rcommaaccent p -10  
KPX rcommaaccent period -100  
KPX rcommaaccent q -18  
KPX rcommaaccent v -10  
KPX space A -55  
KPX space Aacute -55  
KPX space Abreve -55  
KPX space Acircumflex -55  
KPX space Adieresis -55  
KPX space Agrave -55  
KPX space Amacron -55  
KPX space Aogonek -55  
KPX space Aring -55  
KPX space Atilde -55  
KPX space T -30  
KPX space Tcaron -30  
KPX space Tcommaaccent -30  
KPX space V -45  
KPX space W -30  
KPX space Y -55  
KPX space Yacute -55  
KPX space Ydieresis -55  
KPX v a -10  
KPX v aacute -10  
KPX v abreve -10  
KPX v acircumflex -10  
KPX v adieresis -10  
KPX v agrave -10

KPX v amacron -10  
KPX v aogonek -10  
KPX v aring -10  
KPX v atilde -10  
KPX v comma -55  
KPX v e -10  
KPX v eacute -10  
KPX v ecaron -10  
KPX v ecircumflex -10  
KPX v edieresis -10  
KPX v edotaccent -10  
KPX v egrave -10  
KPX v emacron -10  
KPX v eogonek -10  
KPX v o -10  
KPX v oacute -10  
KPX v ocircumflex -10  
KPX v odieresis -10  
KPX v ograve -10  
KPX v ohungarumlaut -10  
KPX v omacron -10  
KPX v oslash -10  
KPX v otilde -10  
KPX v period -70  
KPX w comma -55  
KPX w o -10  
KPX w oacute -10  
KPX w ocircumflex -10  
KPX w odieresis -10  
KPX w ograve -10  
KPX w ohungarumlaut -10  
KPX w omacron -10  
KPX w oslash -10  
KPX w otilde -10  
KPX w period -70  
KPX y comma -55  
KPX y e -10  
KPX y eacute -10  
KPX y ecaron -10  
KPX y ecircumflex -10  
KPX y edieresis -10  
KPX y edotaccent -10  
KPX y egrave -10  
KPX y emacron -10  
KPX y eogonek -10  
KPX y o -25  
KPX y oacute -25  
KPX y ocircumflex -25

KPX y odieresis -25  
KPX y ograve -25  
KPX y ohungarumlaut -25  
KPX y omacron -25  
KPX y oslash -25  
KPX y otilde -25  
KPX y period -70  
KPX yacute comma -55  
KPX yacute e -10  
KPX yacute eacute -10  
KPX yacute ecaron -10  
KPX yacute ecircumflex -10  
KPX yacute edieresis -10  
KPX yacute edotaccent -10  
KPX yacute egrave -10  
KPX yacute emacron -10  
KPX yacute eogonek -10  
KPX yacute o -25  
KPX yacute oacute -25  
KPX yacute ocircumflex -25  
KPX yacute odieresis -25  
KPX yacute ograve -25  
KPX yacute ohungarumlaut -25  
KPX yacute omacron -25  
KPX yacute oslash -25  
KPX yacute otilde -25  
KPX yacute period -70  
KPX ydieresis comma -55  
KPX ydieresis e -10  
KPX ydieresis eacute -10  
KPX ydieresis ecaron -10  
KPX ydieresis ecircumflex -10  
KPX ydieresis edieresis -10  
KPX ydieresis edotaccent -10  
KPX ydieresis egrave -10  
KPX ydieresis emacron -10  
KPX ydieresis eogonek -10  
KPX ydieresis o -25  
KPX ydieresis oacute -25  
KPX ydieresis ocircumflex -25  
KPX ydieresis odieresis -25  
KPX ydieresis ograve -25  
KPX ydieresis ohungarumlaut -25  
KPX ydieresis omacron -25  
KPX ydieresis oslash -25  
KPX ydieresis otilde -25  
KPX ydieresis period -70  
EndKernPairs

EndKernData  
EndFontMetrics  
StartFontMetrics 4.1  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu May 1 12:49:17 1997  
Comment UniqueID 43068  
Comment VMusage 43909 54934  
FontName Times-Roman  
FullName Times Roman  
FamilyName Times  
Weight Roman  
ItalicAngle 0  
IsFixedPitch false  
CharacterSet ExtendedRoman  
FontBBox -168 -218 1000 898  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.000  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved. Times  
is a trademark of Linotype-Hell AG and/or its subsidiaries.  
EncodingScheme AdobeStandardEncoding  
CapHeight 662  
XHeight 450  
Ascender 683  
Descender -217  
StdHW 28  
StdVW 84  
StartCharMetrics 315  
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 130 -9 238 676 ;  
C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;  
C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;  
C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;  
C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;  
C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;  
C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;  
C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;  
C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;  
C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;  
C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;  
C 44 ; WX 250 ; N comma ; B 56 -141 195 102 ;  
C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;  
C 46 ; WX 250 ; N period ; B 70 -11 181 100 ;  
C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;  
C 48 ; WX 500 ; N zero ; B 24 -14 476 676 ;  
C 49 ; WX 500 ; N one ; B 111 0 394 676 ;  
C 50 ; WX 500 ; N two ; B 30 0 475 676 ;  
C 51 ; WX 500 ; N three ; B 43 -14 431 676 ;

C 52 ; WX 500 ; N four ; B 12 0 472 676 ;  
C 53 ; WX 500 ; N five ; B 32 -14 438 688 ;  
C 54 ; WX 500 ; N six ; B 34 -14 468 684 ;  
C 55 ; WX 500 ; N seven ; B 20 -8 449 662 ;  
C 56 ; WX 500 ; N eight ; B 56 -14 445 676 ;  
C 57 ; WX 500 ; N nine ; B 30 -22 459 676 ;  
C 58 ; WX 278 ; N colon ; B 81 -11 192 459 ;  
C 59 ; WX 278 ; N semicolon ; B 80 -141 219 459 ;  
C 60 ; WX 564 ; N less ; B 28 -8 536 514 ;  
C 61 ; WX 564 ; N equal ; B 30 120 534 386 ;  
C 62 ; WX 564 ; N greater ; B 28 -8 536 514 ;  
C 63 ; WX 444 ; N question ; B 68 -8 414 676 ;  
C 64 ; WX 921 ; N at ; B 116 -14 809 676 ;  
C 65 ; WX 722 ; N A ; B 15 0 706 674 ;  
C 66 ; WX 667 ; N B ; B 17 0 593 662 ;  
C 67 ; WX 667 ; N C ; B 28 -14 633 676 ;  
C 68 ; WX 722 ; N D ; B 16 0 685 662 ;  
C 69 ; WX 611 ; N E ; B 12 0 597 662 ;  
C 70 ; WX 556 ; N F ; B 12 0 546 662 ;  
C 71 ; WX 722 ; N G ; B 32 -14 709 676 ;  
C 72 ; WX 722 ; N H ; B 19 0 702 662 ;  
C 73 ; WX 333 ; N I ; B 18 0 315 662 ;  
C 74 ; WX 389 ; N J ; B 10 -14 370 662 ;  
C 75 ; WX 722 ; N K ; B 34 0 723 662 ;  
C 76 ; WX 611 ; N L ; B 12 0 598 662 ;  
C 77 ; WX 889 ; N M ; B 12 0 863 662 ;  
C 78 ; WX 722 ; N N ; B 12 -11 707 662 ;  
C 79 ; WX 722 ; N O ; B 34 -14 688 676 ;  
C 80 ; WX 556 ; N P ; B 16 0 542 662 ;  
C 81 ; WX 722 ; N Q ; B 34 -178 701 676 ;  
C 82 ; WX 667 ; N R ; B 17 0 659 662 ;  
C 83 ; WX 556 ; N S ; B 42 -14 491 676 ;  
C 84 ; WX 611 ; N T ; B 17 0 593 662 ;  
C 85 ; WX 722 ; N U ; B 14 -14 705 662 ;  
C 86 ; WX 722 ; N V ; B 16 -11 697 662 ;  
C 87 ; WX 944 ; N W ; B 5 -11 932 662 ;  
C 88 ; WX 722 ; N X ; B 10 0 704 662 ;  
C 89 ; WX 722 ; N Y ; B 22 0 703 662 ;  
C 90 ; WX 611 ; N Z ; B 9 0 597 662 ;  
C 91 ; WX 333 ; N bracketleft ; B 88 -156 299 662 ;  
C 92 ; WX 278 ; N backslash ; B -9 -14 287 676 ;  
C 93 ; WX 333 ; N bracketright ; B 34 -156 245 662 ;  
C 94 ; WX 469 ; N asciicircum ; B 24 297 446 662 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 115 433 254 676 ;  
C 97 ; WX 444 ; N a ; B 37 -10 442 460 ;  
C 98 ; WX 500 ; N b ; B 3 -10 468 683 ;  
C 99 ; WX 444 ; N c ; B 25 -10 412 460 ;

C 100 ; WX 500 ; N d ; B 27 -10 491 683 ;  
C 101 ; WX 444 ; N e ; B 25 -10 424 460 ;  
C 102 ; WX 333 ; N f ; B 20 0 383 683 ; L i fi ; L l fl ;  
C 103 ; WX 500 ; N g ; B 28 -218 470 460 ;  
C 104 ; WX 500 ; N h ; B 9 0 487 683 ;  
C 105 ; WX 278 ; N i ; B 16 0 253 683 ;  
C 106 ; WX 278 ; N j ; B -70 -218 194 683 ;  
C 107 ; WX 500 ; N k ; B 7 0 505 683 ;  
C 108 ; WX 278 ; N l ; B 19 0 257 683 ;  
C 109 ; WX 778 ; N m ; B 16 0 775 460 ;  
C 110 ; WX 500 ; N n ; B 16 0 485 460 ;  
C 111 ; WX 500 ; N o ; B 29 -10 470 460 ;  
C 112 ; WX 500 ; N p ; B 5 -217 470 460 ;  
C 113 ; WX 500 ; N q ; B 24 -217 488 460 ;  
C 114 ; WX 333 ; N r ; B 5 0 335 460 ;  
C 115 ; WX 389 ; N s ; B 51 -10 348 460 ;  
C 116 ; WX 278 ; N t ; B 13 -10 279 579 ;  
C 117 ; WX 500 ; N u ; B 9 -10 479 450 ;  
C 118 ; WX 500 ; N v ; B 19 -14 477 450 ;  
C 119 ; WX 722 ; N w ; B 21 -14 694 450 ;  
C 120 ; WX 500 ; N x ; B 17 0 479 450 ;  
C 121 ; WX 500 ; N y ; B 14 -218 475 450 ;  
C 122 ; WX 444 ; N z ; B 27 0 418 450 ;  
C 123 ; WX 480 ; N braceleft ; B 100 -181 350 680 ;  
C 124 ; WX 200 ; N bar ; B 67 -218 133 782 ;  
C 125 ; WX 480 ; N braceright ; B 130 -181 380 680 ;  
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;  
C 161 ; WX 333 ; N exclamdown ; B 97 -218 205 467 ;  
C 162 ; WX 500 ; N cent ; B 53 -138 448 579 ;  
C 163 ; WX 500 ; N sterling ; B 12 -8 490 676 ;  
C 164 ; WX 167 ; N fraction ; B -168 -14 331 676 ;  
C 165 ; WX 500 ; N yen ; B -53 0 512 662 ;  
C 166 ; WX 500 ; N florin ; B 7 -189 490 676 ;  
C 167 ; WX 500 ; N section ; B 70 -148 426 676 ;  
C 168 ; WX 500 ; N currency ; B -22 58 522 602 ;  
C 169 ; WX 180 ; N quotesingle ; B 48 431 133 676 ;  
C 170 ; WX 444 ; N quotedblleft ; B 43 433 414 676 ;  
C 171 ; WX 500 ; N guillemotleft ; B 42 33 456 416 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 63 33 285 416 ;  
C 173 ; WX 333 ; N guilsinglright ; B 48 33 270 416 ;  
C 174 ; WX 556 ; N fi ; B 31 0 521 683 ;  
C 175 ; WX 556 ; N fl ; B 32 0 521 683 ;  
C 177 ; WX 500 ; N endash ; B 0 201 500 250 ;  
C 178 ; WX 500 ; N dagger ; B 59 -149 442 676 ;  
C 179 ; WX 500 ; N daggerdbl ; B 58 -153 442 676 ;  
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;  
C 182 ; WX 453 ; N paragraph ; B -22 -154 450 662 ;  
C 183 ; WX 350 ; N bullet ; B 40 196 310 466 ;

C 184 ; WX 333 ; N quotesinglbase ; B 79 -141 218 102 ;  
C 185 ; WX 444 ; N quotedblbase ; B 45 -141 416 102 ;  
C 186 ; WX 444 ; N quotedblright ; B 30 433 401 676 ;  
C 187 ; WX 500 ; N guillemotright ; B 44 33 458 416 ;  
C 188 ; WX 1000 ; N ellipsis ; B 111 -11 888 100 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 706 ;  
C 191 ; WX 444 ; N questiondown ; B 30 -218 376 466 ;  
C 193 ; WX 333 ; N grave ; B 19 507 242 678 ;  
C 194 ; WX 333 ; N acute ; B 93 507 317 678 ;  
C 195 ; WX 333 ; N circumflex ; B 11 507 322 674 ;  
C 196 ; WX 333 ; N tilde ; B 1 532 331 638 ;  
C 197 ; WX 333 ; N macron ; B 11 547 322 601 ;  
C 198 ; WX 333 ; N breve ; B 26 507 307 664 ;  
C 199 ; WX 333 ; N dotaccent ; B 118 581 216 681 ;  
C 200 ; WX 333 ; N dieresis ; B 18 581 315 681 ;  
C 202 ; WX 333 ; N ring ; B 67 512 266 711 ;  
C 203 ; WX 333 ; N cedilla ; B 52 -215 261 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -3 507 377 678 ;  
C 206 ; WX 333 ; N ogonek ; B 62 -165 243 0 ;  
C 207 ; WX 333 ; N caron ; B 11 507 322 674 ;  
C 208 ; WX 1000 ; N emdash ; B 0 201 1000 250 ;  
C 225 ; WX 889 ; N AE ; B 0 0 863 662 ;  
C 227 ; WX 276 ; N ordfeminine ; B 4 394 270 676 ;  
C 232 ; WX 611 ; N Lslash ; B 12 0 598 662 ;  
C 233 ; WX 722 ; N Oslash ; B 34 -80 688 734 ;  
C 234 ; WX 889 ; N OE ; B 30 -6 885 668 ;  
C 235 ; WX 310 ; N ordmasculine ; B 6 394 304 676 ;  
C 241 ; WX 667 ; N ae ; B 38 -10 632 460 ;  
C 245 ; WX 278 ; N dotlessi ; B 16 0 253 460 ;  
C 248 ; WX 278 ; N lslash ; B 19 0 259 683 ;  
C 249 ; WX 500 ; N oslash ; B 29 -112 470 551 ;  
C 250 ; WX 722 ; N oe ; B 30 -10 690 460 ;  
C 251 ; WX 500 ; N germandbls ; B 12 -9 468 683 ;  
C -1 ; WX 333 ; N Idieresis ; B 18 0 315 835 ;  
C -1 ; WX 444 ; N eacute ; B 25 -10 424 678 ;  
C -1 ; WX 444 ; N abreve ; B 37 -10 442 664 ;  
C -1 ; WX 500 ; N uhungarumlaut ; B 9 -10 501 678 ;  
C -1 ; WX 444 ; N ecaron ; B 25 -10 424 674 ;  
C -1 ; WX 722 ; N Ydieresis ; B 22 0 703 835 ;  
C -1 ; WX 564 ; N divide ; B 30 -10 534 516 ;  
C -1 ; WX 722 ; N Yacute ; B 22 0 703 890 ;  
C -1 ; WX 722 ; N Acircumflex ; B 15 0 706 886 ;  
C -1 ; WX 444 ; N aacute ; B 37 -10 442 678 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 14 -14 705 886 ;  
C -1 ; WX 500 ; N yacute ; B 14 -218 475 678 ;  
C -1 ; WX 389 ; N scommaaccent ; B 51 -218 348 460 ;  
C -1 ; WX 444 ; N ecircumflex ; B 25 -10 424 674 ;  
C -1 ; WX 722 ; N Uring ; B 14 -14 705 898 ;



C -1 ; WX 722 ; N Udieresis ; B 14 -14 705 835 ;  
C -1 ; WX 444 ; N aogonek ; B 37 -165 469 460 ;  
C -1 ; WX 722 ; N Uacute ; B 14 -14 705 890 ;  
C -1 ; WX 500 ; N uogonek ; B 9 -155 487 450 ;  
C -1 ; WX 611 ; N Edieresis ; B 12 0 597 835 ;  
C -1 ; WX 722 ; N Dcroat ; B 16 0 685 662 ;  
C -1 ; WX 250 ; N commaaccent ; B 59 -218 184 -50 ;  
C -1 ; WX 760 ; N copyright ; B 38 -14 722 676 ;  
C -1 ; WX 611 ; N Emacron ; B 12 0 597 813 ;  
C -1 ; WX 444 ; N ccaron ; B 25 -10 412 674 ;  
C -1 ; WX 444 ; N aring ; B 37 -10 442 711 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 12 -198 707 662 ;  
C -1 ; WX 278 ; N lacute ; B 19 0 290 890 ;  
C -1 ; WX 444 ; N agrave ; B 37 -10 442 678 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 17 -218 593 662 ;  
C -1 ; WX 667 ; N Cacute ; B 28 -14 633 890 ;  
C -1 ; WX 444 ; N atilde ; B 37 -10 442 638 ;  
C -1 ; WX 611 ; N Edotaccent ; B 12 0 597 835 ;  
C -1 ; WX 389 ; N scaron ; B 39 -10 350 674 ;  
C -1 ; WX 389 ; N scedilla ; B 51 -215 348 460 ;  
C -1 ; WX 278 ; N iacute ; B 16 0 290 678 ;  
C -1 ; WX 471 ; N lozenge ; B 13 0 459 724 ;  
C -1 ; WX 667 ; N Rcaron ; B 17 0 659 886 ;  
C -1 ; WX 722 ; N Gcommaaccent ; B 32 -218 709 676 ;  
C -1 ; WX 500 ; N ucircumflex ; B 9 -10 479 674 ;  
C -1 ; WX 444 ; N acircumflex ; B 37 -10 442 674 ;  
C -1 ; WX 722 ; N Amacron ; B 15 0 706 813 ;  
C -1 ; WX 333 ; N rcaron ; B 5 0 335 674 ;  
C -1 ; WX 444 ; N ccedilla ; B 25 -215 412 460 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 9 0 597 835 ;  
C -1 ; WX 556 ; N Thorn ; B 16 0 542 662 ;  
C -1 ; WX 722 ; N Omacron ; B 34 -14 688 813 ;  
C -1 ; WX 667 ; N Racute ; B 17 0 659 890 ;  
C -1 ; WX 556 ; N Sacute ; B 42 -14 491 890 ;  
C -1 ; WX 588 ; N dcaron ; B 27 -10 589 695 ;  
C -1 ; WX 722 ; N Umacron ; B 14 -14 705 813 ;  
C -1 ; WX 500 ; N uring ; B 9 -10 479 711 ;  
C -1 ; WX 300 ; N threesuperior ; B 15 262 291 676 ;  
C -1 ; WX 722 ; N Ograve ; B 34 -14 688 890 ;  
C -1 ; WX 722 ; N Agrave ; B 15 0 706 890 ;  
C -1 ; WX 722 ; N Abreve ; B 15 0 706 876 ;  
C -1 ; WX 564 ; N multiply ; B 38 8 527 497 ;  
C -1 ; WX 500 ; N uacute ; B 9 -10 479 678 ;  
C -1 ; WX 611 ; N Tcaron ; B 17 0 593 886 ;  
C -1 ; WX 476 ; N partialdiff ; B 17 -38 459 710 ;  
C -1 ; WX 500 ; N ydieresis ; B 14 -218 475 623 ;  
C -1 ; WX 722 ; N Nacute ; B 12 -11 707 890 ;  
C -1 ; WX 278 ; N icircumflex ; B -16 0 295 674 ;

C -1 ; WX 611 ; N Ecircumflex ; B 12 0 597 886 ;  
C -1 ; WX 444 ; N adieresis ; B 37 -10 442 623 ;  
C -1 ; WX 444 ; N edieresis ; B 25 -10 424 623 ;  
C -1 ; WX 444 ; N cacute ; B 25 -10 413 678 ;  
C -1 ; WX 500 ; N nacute ; B 16 0 485 678 ;  
C -1 ; WX 500 ; N umacron ; B 9 -10 479 601 ;  
C -1 ; WX 722 ; N Ncaron ; B 12 -11 707 886 ;  
C -1 ; WX 333 ; N Iacute ; B 18 0 317 890 ;  
C -1 ; WX 564 ; N plusminus ; B 30 0 534 506 ;  
C -1 ; WX 200 ; N brokenbar ; B 67 -143 133 707 ;  
C -1 ; WX 760 ; N registered ; B 38 -14 722 676 ;  
C -1 ; WX 722 ; N Gbreve ; B 32 -14 709 876 ;  
C -1 ; WX 333 ; N Idotaccent ; B 18 0 315 835 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;  
C -1 ; WX 611 ; N Egrave ; B 12 0 597 890 ;  
C -1 ; WX 333 ; N racute ; B 5 0 335 678 ;  
C -1 ; WX 500 ; N omacron ; B 29 -10 470 601 ;  
C -1 ; WX 611 ; N Zacute ; B 9 0 597 890 ;  
C -1 ; WX 611 ; N Zcaron ; B 9 0 597 886 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 666 ;  
C -1 ; WX 722 ; N Eth ; B 16 0 685 662 ;  
C -1 ; WX 667 ; N Ccedilla ; B 28 -215 633 676 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 19 -218 257 683 ;  
C -1 ; WX 326 ; N tcaron ; B 13 -10 318 722 ;  
C -1 ; WX 444 ; N eogonek ; B 25 -165 424 460 ;  
C -1 ; WX 722 ; N Uogonek ; B 14 -165 705 662 ;  
C -1 ; WX 722 ; N Aacute ; B 15 0 706 890 ;  
C -1 ; WX 722 ; N Adieresis ; B 15 0 706 835 ;  
C -1 ; WX 444 ; N egrave ; B 25 -10 424 678 ;  
C -1 ; WX 444 ; N zacute ; B 27 0 418 678 ;  
C -1 ; WX 278 ; N iogonek ; B 16 -165 265 683 ;  
C -1 ; WX 722 ; N Oacute ; B 34 -14 688 890 ;  
C -1 ; WX 500 ; N oacute ; B 29 -10 470 678 ;  
C -1 ; WX 444 ; N amacron ; B 37 -10 442 601 ;  
C -1 ; WX 389 ; N sacute ; B 51 -10 348 678 ;  
C -1 ; WX 278 ; N idieresis ; B -9 0 288 623 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 34 -14 688 886 ;  
C -1 ; WX 722 ; N Ugrave ; B 14 -14 705 890 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 500 ; N thorn ; B 5 -217 470 683 ;  
C -1 ; WX 300 ; N twosuperior ; B 1 270 296 676 ;  
C -1 ; WX 722 ; N Odieresis ; B 34 -14 688 835 ;  
C -1 ; WX 500 ; N mu ; B 36 -218 512 450 ;  
C -1 ; WX 278 ; N igrave ; B -8 0 253 678 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B 29 -10 491 678 ;  
C -1 ; WX 611 ; N Eogonek ; B 12 -165 597 662 ;  
C -1 ; WX 500 ; N dcroat ; B 27 -10 500 683 ;  
C -1 ; WX 750 ; N threequarters ; B 15 -14 718 676 ;

C -1 ; WX 556 ; N Scedilla ; B 42 -215 491 676 ;  
C -1 ; WX 344 ; N lcaron ; B 19 0 347 695 ;  
C -1 ; WX 722 ; N Kcommaaccent ; B 34 -198 723 662 ;  
C -1 ; WX 611 ; N Lacute ; B 12 0 598 890 ;  
C -1 ; WX 980 ; N trademark ; B 30 256 957 662 ;  
C -1 ; WX 444 ; N edotaccent ; B 25 -10 424 623 ;  
C -1 ; WX 333 ; N Igrave ; B 18 0 315 890 ;  
C -1 ; WX 333 ; N Imacron ; B 11 0 322 813 ;  
C -1 ; WX 611 ; N Lcaron ; B 12 0 598 676 ;  
C -1 ; WX 750 ; N onehalf ; B 31 -14 746 676 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 523 666 ;  
C -1 ; WX 500 ; N ocircumflex ; B 29 -10 470 674 ;  
C -1 ; WX 500 ; N ntilde ; B 16 0 485 638 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 14 -14 705 890 ;  
C -1 ; WX 611 ; N Eacute ; B 12 0 597 890 ;  
C -1 ; WX 444 ; N emacron ; B 25 -10 424 601 ;  
C -1 ; WX 500 ; N gbreve ; B 28 -218 470 664 ;  
C -1 ; WX 750 ; N onequarter ; B 37 -14 718 676 ;  
C -1 ; WX 556 ; N Scaron ; B 42 -14 491 886 ;  
C -1 ; WX 556 ; N Scommaaccent ; B 42 -218 491 676 ;  
C -1 ; WX 722 ; N Ohungarumlaut ; B 34 -14 688 890 ;  
C -1 ; WX 400 ; N degree ; B 57 390 343 676 ;  
C -1 ; WX 500 ; N ograve ; B 29 -10 470 678 ;  
C -1 ; WX 667 ; N Ccaron ; B 28 -14 633 886 ;  
C -1 ; WX 500 ; N ugrave ; B 9 -10 479 678 ;  
C -1 ; WX 453 ; N radical ; B 2 -60 452 768 ;  
C -1 ; WX 722 ; N Dcaron ; B 16 0 685 886 ;  
C -1 ; WX 333 ; N rcommaaccent ; B 5 -218 335 460 ;  
C -1 ; WX 722 ; N Ntilde ; B 12 -11 707 850 ;  
C -1 ; WX 500 ; N otilde ; B 29 -10 470 638 ;  
C -1 ; WX 667 ; N Rcommaaccent ; B 17 -198 659 662 ;  
C -1 ; WX 611 ; N Lcommaaccent ; B 12 -218 598 662 ;  
C -1 ; WX 722 ; N Atilde ; B 15 0 706 850 ;  
C -1 ; WX 722 ; N Aogonek ; B 15 -165 738 674 ;  
C -1 ; WX 722 ; N Aring ; B 15 0 706 898 ;  
C -1 ; WX 722 ; N Otilde ; B 34 -14 688 850 ;  
C -1 ; WX 444 ; N zdotaccent ; B 27 0 418 623 ;  
C -1 ; WX 611 ; N Ecaron ; B 12 0 597 886 ;  
C -1 ; WX 333 ; N Iogonek ; B 18 -165 315 662 ;  
C -1 ; WX 500 ; N kcommaaccent ; B 7 -218 505 683 ;  
C -1 ; WX 564 ; N minus ; B 30 220 534 286 ;  
C -1 ; WX 333 ; N Icircumflex ; B 11 0 322 886 ;  
C -1 ; WX 500 ; N ncaron ; B 16 0 485 674 ;  
C -1 ; WX 278 ; N tcommaaccent ; B 13 -218 279 579 ;  
C -1 ; WX 564 ; N logicalnot ; B 30 108 534 386 ;  
C -1 ; WX 500 ; N odieresis ; B 29 -10 470 623 ;  
C -1 ; WX 500 ; N udieresis ; B 9 -10 479 623 ;  
C -1 ; WX 549 ; N notequal ; B 12 -31 537 547 ;

C -1 ; WX 500 ; N gcommaaccent ; B 28 -218 470 749 ;  
C -1 ; WX 500 ; N eth ; B 29 -10 471 686 ;  
C -1 ; WX 444 ; N zcaron ; B 27 0 418 674 ;  
C -1 ; WX 500 ; N ncommaaccent ; B 16 -218 485 460 ;  
C -1 ; WX 300 ; N onesuperior ; B 57 270 248 676 ;  
C -1 ; WX 278 ; N imacron ; B 6 0 271 601 ;  
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2073

KPX A C -40

KPX A Cacute -40

KPX A Ccaron -40

KPX A Ccedilla -40

KPX A G -40

KPX A Gbreve -40

KPX A Gcommaaccent -40

KPX A O -55

KPX A Oacute -55

KPX A Ocircumflex -55

KPX A Odieresis -55

KPX A Ograve -55

KPX A Ohungarumlaut -55

KPX A Omacron -55

KPX A Oslash -55

KPX A Otilde -55

KPX A Q -55

KPX A T -111

KPX A Tcaron -111

KPX A Tcommaaccent -111

KPX A U -55

KPX A Uacute -55

KPX A Ucircumflex -55

KPX A Udieresis -55

KPX A Ugrave -55

KPX A Uhungarumlaut -55

KPX A Umacron -55

KPX A Uogonek -55

KPX A Uring -55

KPX A V -135

KPX A W -90

KPX A Y -105

KPX A Yacute -105

KPX A Ydieresis -105

KPX A quoteright -111

KPX A v -74

KPX A w -92

KPX A y -92

KPX A yacute -92  
KPX A ydieresis -92  
KPX Aacute C -40  
KPX Aacute Cacute -40  
KPX Aacute Ccaron -40  
KPX Aacute Ccedilla -40  
KPX Aacute G -40  
KPX Aacute Gbreve -40  
KPX Aacute Gcommaaccent -40  
KPX Aacute O -55  
KPX Aacute Oacute -55  
KPX Aacute Ocircumflex -55  
KPX Aacute Odieresis -55  
KPX Aacute Ograve -55  
KPX Aacute Ohungarumlaut -55  
KPX Aacute Omacron -55  
KPX Aacute Oslash -55  
KPX Aacute Otilde -55  
KPX Aacute Q -55  
KPX Aacute T -111  
KPX Aacute Tcaron -111  
KPX Aacute Tcommaaccent -111  
KPX Aacute U -55  
KPX Aacute Uacute -55  
KPX Aacute Ucircumflex -55  
KPX Aacute Udieresis -55  
KPX Aacute Ugrave -55  
KPX Aacute Uhungarumlaut -55  
KPX Aacute Umacron -55  
KPX Aacute Uogonek -55  
KPX Aacute Uring -55  
KPX Aacute V -135  
KPX Aacute W -90  
KPX Aacute Y -105  
KPX Aacute Yacute -105  
KPX Aacute Ydieresis -105  
KPX Aacute quoteright -111  
KPX Aacute v -74  
KPX Aacute w -92  
KPX Aacute y -92  
KPX Aacute yacute -92  
KPX Aacute ydieresis -92  
KPX Abreve C -40  
KPX Abreve Cacute -40  
KPX Abreve Ccaron -40  
KPX Abreve Ccedilla -40  
KPX Abreve G -40  
KPX Abreve Gbreve -40

KPX Abreve Gcommaaccent -40  
KPX Abreve O -55  
KPX Abreve Oacute -55  
KPX Abreve Ocircumflex -55  
KPX Abreve Odieresis -55  
KPX Abreve Ograve -55  
KPX Abreve Ohungarumlaut -55  
KPX Abreve Omacron -55  
KPX Abreve Oslash -55  
KPX Abreve Otilde -55  
KPX Abreve Q -55  
KPX Abreve T -111  
KPX Abreve Tcaron -111  
KPX Abreve Tcommaaccent -111  
KPX Abreve U -55  
KPX Abreve Uacute -55  
KPX Abreve Ucircumflex -55  
KPX Abreve Udieresis -55  
KPX Abreve Ugrave -55  
KPX Abreve Uhungarumlaut -55  
KPX Abreve Umacron -55  
KPX Abreve Uogonek -55  
KPX Abreve Uring -55  
KPX Abreve V -135  
KPX Abreve W -90  
KPX Abreve Y -105  
KPX Abreve Yacute -105  
KPX Abreve Ydieresis -105  
KPX Abreve quoteright -111  
KPX Abreve v -74  
KPX Abreve w -92  
KPX Abreve y -92  
KPX Abreve yacute -92  
KPX Abreve ydieresis -92  
KPX Acircumflex C -40  
KPX Acircumflex Cacute -40  
KPX Acircumflex Ccaron -40  
KPX Acircumflex Ccedilla -40  
KPX Acircumflex G -40  
KPX Acircumflex Gbreve -40  
KPX Acircumflex Gcommaaccent -40  
KPX Acircumflex O -55  
KPX Acircumflex Oacute -55  
KPX Acircumflex Ocircumflex -55  
KPX Acircumflex Odieresis -55  
KPX Acircumflex Ograve -55  
KPX Acircumflex Ohungarumlaut -55  
KPX Acircumflex Omacron -55

KPX Acircumflex Oslash -55  
KPX Acircumflex Otilde -55  
KPX Acircumflex Q -55  
KPX Acircumflex T -111  
KPX Acircumflex Tcaron -111  
KPX Acircumflex Tcommaaccent -111  
KPX Acircumflex U -55  
KPX Acircumflex Uacute -55  
KPX Acircumflex Ucircumflex -55  
KPX Acircumflex Udieresis -55  
KPX Acircumflex Ugrave -55  
KPX Acircumflex Uhungarumlaut -55  
KPX Acircumflex Umacron -55  
KPX Acircumflex Uogonek -55  
KPX Acircumflex Uring -55  
KPX Acircumflex V -135  
KPX Acircumflex W -90  
KPX Acircumflex Y -105  
KPX Acircumflex Yacute -105  
KPX Acircumflex Ydieresis -105  
KPX Acircumflex quoteright -111  
KPX Acircumflex v -74  
KPX Acircumflex w -92  
KPX Acircumflex y -92  
KPX Acircumflex yacute -92  
KPX Acircumflex ydieresis -92  
KPX Adieresis C -40  
KPX Adieresis Cacute -40  
KPX Adieresis Ccaron -40  
KPX Adieresis Ccedilla -40  
KPX Adieresis G -40  
KPX Adieresis Gbreve -40  
KPX Adieresis Gcommaaccent -40  
KPX Adieresis O -55  
KPX Adieresis Oacute -55  
KPX Adieresis Ocircumflex -55  
KPX Adieresis Odieresis -55  
KPX Adieresis Ograve -55  
KPX Adieresis Ohungarumlaut -55  
KPX Adieresis Omacron -55  
KPX Adieresis Oslash -55  
KPX Adieresis Otilde -55  
KPX Adieresis Q -55  
KPX Adieresis T -111  
KPX Adieresis Tcaron -111  
KPX Adieresis Tcommaaccent -111  
KPX Adieresis U -55  
KPX Adieresis Uacute -55

KPX Adieresis Ucircumflex -55  
KPX Adieresis Udieresis -55  
KPX Adieresis Ugrave -55  
KPX Adieresis Uhungarumlaut -55  
KPX Adieresis Umacron -55  
KPX Adieresis Uogonek -55  
KPX Adieresis Uring -55  
KPX Adieresis V -135  
KPX Adieresis W -90  
KPX Adieresis Y -105  
KPX Adieresis Yacute -105  
KPX Adieresis Ydieresis -105  
KPX Adieresis quoteright -111  
KPX Adieresis v -74  
KPX Adieresis w -92  
KPX Adieresis y -92  
KPX Adieresis yacute -92  
KPX Adieresis ydieresis -92  
KPX Agrave C -40  
KPX Agrave Cacute -40  
KPX Agrave Ccaron -40  
KPX Agrave Ccedilla -40  
KPX Agrave G -40  
KPX Agrave Gbreve -40  
KPX Agrave Gcommaaccent -40  
KPX Agrave O -55  
KPX Agrave Oacute -55  
KPX Agrave Ocircumflex -55  
KPX Agrave Odieresis -55  
KPX Agrave Ograve -55  
KPX Agrave Ohungarumlaut -55  
KPX Agrave Omacron -55  
KPX Agrave Oslash -55  
KPX Agrave Otilde -55  
KPX Agrave Q -55  
KPX Agrave T -111  
KPX Agrave Tcaron -111  
KPX Agrave Tcommaaccent -111  
KPX Agrave U -55  
KPX Agrave Uacute -55  
KPX Agrave Ucircumflex -55  
KPX Agrave Udieresis -55  
KPX Agrave Ugrave -55  
KPX Agrave Uhungarumlaut -55  
KPX Agrave Umacron -55  
KPX Agrave Uogonek -55  
KPX Agrave Uring -55  
KPX Agrave V -135



KPX Agrave W -90  
KPX Agrave Y -105  
KPX Agrave Yacute -105  
KPX Agrave Ydieresis -105  
KPX Agrave quoteright -111  
KPX Agrave v -74  
KPX Agrave w -92  
KPX Agrave y -92  
KPX Agrave yacute -92  
KPX Agrave ydieresis -92  
KPX Amacron C -40  
KPX Amacron Cacute -40  
KPX Amacron Ccaron -40  
KPX Amacron Ccedilla -40  
KPX Amacron G -40  
KPX Amacron Gbreve -40  
KPX Amacron Gcommaaccent -40  
KPX Amacron O -55  
KPX Amacron Oacute -55  
KPX Amacron Ocircumflex -55  
KPX Amacron Odieresis -55  
KPX Amacron Ograve -55  
KPX Amacron Ohungarumlaut -55  
KPX Amacron Omacron -55  
KPX Amacron Oslash -55  
KPX Amacron Otilde -55  
KPX Amacron Q -55  
KPX Amacron T -111  
KPX Amacron Tcaron -111  
KPX Amacron Tcommaaccent -111  
KPX Amacron U -55  
KPX Amacron Uacute -55  
KPX Amacron Ucircumflex -55  
KPX Amacron Udieresis -55  
KPX Amacron Ugrave -55  
KPX Amacron Uhungarumlaut -55  
KPX Amacron Umacron -55  
KPX Amacron Uogonek -55  
KPX Amacron Uring -55  
KPX Amacron V -135  
KPX Amacron W -90  
KPX Amacron Y -105  
KPX Amacron Yacute -105  
KPX Amacron Ydieresis -105  
KPX Amacron quoteright -111  
KPX Amacron v -74  
KPX Amacron w -92  
KPX Amacron y -92

KPX Amacron yacute -92  
KPX Amacron ydieresis -92  
KPX Aogonek C -40  
KPX Aogonek Cacute -40  
KPX Aogonek Ccaron -40  
KPX Aogonek Ccedilla -40  
KPX Aogonek G -40  
KPX Aogonek Gbreve -40  
KPX Aogonek Gcommaaccent -40  
KPX Aogonek O -55  
KPX Aogonek Oacute -55  
KPX Aogonek Ocircumflex -55  
KPX Aogonek Odieresis -55  
KPX Aogonek Ograve -55  
KPX Aogonek Ohungarumlaut -55  
KPX Aogonek Omacron -55  
KPX Aogonek Oslash -55  
KPX Aogonek Otilde -55  
KPX Aogonek Q -55  
KPX Aogonek T -111  
KPX Aogonek Tcaron -111  
KPX Aogonek Tcommaaccent -111  
KPX Aogonek U -55  
KPX Aogonek Uacute -55  
KPX Aogonek Ucircumflex -55  
KPX Aogonek Udieresis -55  
KPX Aogonek Ugrave -55  
KPX Aogonek Uhungarumlaut -55  
KPX Aogonek Umacron -55  
KPX Aogonek Uogonek -55  
KPX Aogonek Uring -55  
KPX Aogonek V -135  
KPX Aogonek W -90  
KPX Aogonek Y -105  
KPX Aogonek Yacute -105  
KPX Aogonek Ydieresis -105  
KPX Aogonek quoteright -111  
KPX Aogonek v -74  
KPX Aogonek w -52  
KPX Aogonek y -52  
KPX Aogonek yacute -52  
KPX Aogonek ydieresis -52  
KPX Aring C -40  
KPX Aring Cacute -40  
KPX Aring Ccaron -40  
KPX Aring Ccedilla -40  
KPX Aring G -40  
KPX Aring Gbreve -40

KPX Aring Gcommaaccent -40  
KPX Aring O -55  
KPX Aring Oacute -55  
KPX Aring Ocircumflex -55  
KPX Aring Odieresis -55  
KPX Aring Ograve -55  
KPX Aring Ohungarumlaut -55  
KPX Aring Omacron -55  
KPX Aring Oslash -55  
KPX Aring Otilde -55  
KPX Aring Q -55  
KPX Aring T -111  
KPX Aring Tcaron -111  
KPX Aring Tcommaaccent -111  
KPX Aring U -55  
KPX Aring Uacute -55  
KPX Aring Ucircumflex -55  
KPX Aring Udieresis -55  
KPX Aring Ugrave -55  
KPX Aring Uhungarumlaut -55  
KPX Aring Umacron -55  
KPX Aring Uogonek -55  
KPX Aring Uring -55  
KPX Aring V -135  
KPX Aring W -90  
KPX Aring Y -105  
KPX Aring Yacute -105  
KPX Aring Ydieresis -105  
KPX Aring quoteright -111  
KPX Aring v -74  
KPX Aring w -92  
KPX Aring y -92  
KPX Aring yacute -92  
KPX Aring ydieresis -92  
KPX Atilde C -40  
KPX Atilde Cacute -40  
KPX Atilde Ccaron -40  
KPX Atilde Ccedilla -40  
KPX Atilde G -40  
KPX Atilde Gbreve -40  
KPX Atilde Gcommaaccent -40  
KPX Atilde O -55  
KPX Atilde Oacute -55  
KPX Atilde Ocircumflex -55  
KPX Atilde Odieresis -55  
KPX Atilde Ograve -55  
KPX Atilde Ohungarumlaut -55  
KPX Atilde Omacron -55

KPX Atilde Oslash -55  
KPX Atilde Otilde -55  
KPX Atilde Q -55  
KPX Atilde T -111  
KPX Atilde Tcaron -111  
KPX Atilde Tcommaaccent -111  
KPX Atilde U -55  
KPX Atilde Uacute -55  
KPX Atilde Ucircumflex -55  
KPX Atilde Udieresis -55  
KPX Atilde Ugrave -55  
KPX Atilde Uhungarumlaut -55  
KPX Atilde Umacron -55  
KPX Atilde Uogonek -55  
KPX Atilde Uring -55  
KPX Atilde V -135  
KPX Atilde W -90  
KPX Atilde Y -105  
KPX Atilde Yacute -105  
KPX Atilde Ydieresis -105  
KPX Atilde quoteright -111  
KPX Atilde v -74  
KPX Atilde w -92  
KPX Atilde y -92  
KPX Atilde yacute -92  
KPX Atilde ydieresis -92  
KPX B A -35  
KPX B Aacute -35  
KPX B Abreve -35  
KPX B Acircumflex -35  
KPX B Adieresis -35  
KPX B Agrave -35  
KPX B Amacron -35  
KPX B Aogonek -35  
KPX B Aring -35  
KPX B Atilde -35  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10  
KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX D A -40  
KPX D Aacute -40  
KPX D Abreve -40

KPX D Acircumflex -40  
KPX D Adieresis -40  
KPX D Agrave -40  
KPX D Amacron -40  
KPX D Aogonek -40  
KPX D Aring -40  
KPX D Atilde -40  
KPX D V -40  
KPX D W -30  
KPX D Y -55  
KPX D Yacute -55  
KPX D Ydieresis -55  
KPX Dcaron A -40  
KPX Dcaron Aacute -40  
KPX Dcaron Abreve -40  
KPX Dcaron Acircumflex -40  
KPX Dcaron Adieresis -40  
KPX Dcaron Agrave -40  
KPX Dcaron Amacron -40  
KPX Dcaron Aogonek -40  
KPX Dcaron Aring -40  
KPX Dcaron Atilde -40  
KPX Dcaron V -40  
KPX Dcaron W -30  
KPX Dcaron Y -55  
KPX Dcaron Yacute -55  
KPX Dcaron Ydieresis -55  
KPX Dcroat A -40  
KPX Dcroat Aacute -40  
KPX Dcroat Abreve -40  
KPX Dcroat Acircumflex -40  
KPX Dcroat Adieresis -40  
KPX Dcroat Agrave -40  
KPX Dcroat Amacron -40  
KPX Dcroat Aogonek -40  
KPX Dcroat Aring -40  
KPX Dcroat Atilde -40  
KPX Dcroat V -40  
KPX Dcroat W -30  
KPX Dcroat Y -55  
KPX Dcroat Yacute -55  
KPX Dcroat Ydieresis -55  
KPX F A -74  
KPX F Aacute -74  
KPX F Abreve -74  
KPX F Acircumflex -74  
KPX F Adieresis -74  
KPX F Agrave -74

KPX F Amacron -74  
KPX F Aogonek -74  
KPX F Aring -74  
KPX F Atilde -74  
KPX F a -15  
KPX F aacute -15  
KPX F abreve -15  
KPX F acircumflex -15  
KPX F adieresis -15  
KPX F agrave -15  
KPX F amacron -15  
KPX F aogonek -15  
KPX F aring -15  
KPX F atilde -15  
KPX F comma -80  
KPX F o -15  
KPX F oacute -15  
KPX F ocircumflex -15  
KPX F odieresis -15  
KPX F ograve -15  
KPX F ohungarumlaut -15  
KPX F omacron -15  
KPX F oslash -15  
KPX F otilde -15  
KPX F period -80  
KPX J A -60  
KPX J Aacute -60  
KPX J Abreve -60  
KPX J Acircumflex -60  
KPX J Adieresis -60  
KPX J Agrave -60  
KPX J Amacron -60  
KPX J Aogonek -60  
KPX J Aring -60  
KPX J Atilde -60  
KPX K O -30  
KPX K Oacute -30  
KPX K Ocircumflex -30  
KPX K Odieresis -30  
KPX K Ograve -30  
KPX K Ohungarumlaut -30  
KPX K Omacron -30  
KPX K Oslash -30  
KPX K Otilde -30  
KPX K e -25  
KPX K eacute -25  
KPX K ecaron -25  
KPX K ecircumflex -25

KPX K edieresis -25  
KPX K edotaccent -25  
KPX K egrave -25  
KPX K emacron -25  
KPX K eogonek -25  
KPX K o -35  
KPX K oacute -35  
KPX K ocircumflex -35  
KPX K odieresis -35  
KPX K ograve -35  
KPX K ohungarumlaut -35  
KPX K omacron -35  
KPX K oslash -35  
KPX K otilde -35  
KPX K u -15  
KPX K uacute -15  
KPX K ucircumflex -15  
KPX K udieresis -15  
KPX K ugrave -15  
KPX K uhungarumlaut -15  
KPX K umacron -15  
KPX K uogonek -15  
KPX K uring -15  
KPX K y -25  
KPX K yacute -25  
KPX K ydieresis -25  
KPX Kcommaaccent O -30  
KPX Kcommaaccent Oacute -30  
KPX Kcommaaccent Ocircumflex -30  
KPX Kcommaaccent Odieresis -30  
KPX Kcommaaccent Ograve -30  
KPX Kcommaaccent Ohungarumlaut -30  
KPX Kcommaaccent Omacron -30  
KPX Kcommaaccent Oslash -30  
KPX Kcommaaccent Otilde -30  
KPX Kcommaaccent e -25  
KPX Kcommaaccent eacute -25  
KPX Kcommaaccent ecaron -25  
KPX Kcommaaccent ecircumflex -25  
KPX Kcommaaccent edieresis -25  
KPX Kcommaaccent edotaccent -25  
KPX Kcommaaccent egrave -25  
KPX Kcommaaccent emacron -25  
KPX Kcommaaccent eogonek -25  
KPX Kcommaaccent o -35  
KPX Kcommaaccent oacute -35  
KPX Kcommaaccent ocircumflex -35  
KPX Kcommaaccent odieresis -35

KPX Kcommaaccent ograve -35  
KPX Kcommaaccent ohungarumlaut -35  
KPX Kcommaaccent omacron -35  
KPX Kcommaaccent oslash -35  
KPX Kcommaaccent otilde -35  
KPX Kcommaaccent u -15  
KPX Kcommaaccent uacute -15  
KPX Kcommaaccent ucircumflex -15  
KPX Kcommaaccent udieresis -15  
KPX Kcommaaccent ugrave -15  
KPX Kcommaaccent uhungarumlaut -15  
KPX Kcommaaccent umacron -15  
KPX Kcommaaccent uogonek -15  
KPX Kcommaaccent uring -15  
KPX Kcommaaccent y -25  
KPX Kcommaaccent yacute -25  
KPX Kcommaaccent ydieresis -25  
KPX L T -92  
KPX L Tcaron -92  
KPX L Tcommaaccent -92  
KPX L V -100  
KPX L W -74  
KPX L Y -100  
KPX L Yacute -100  
KPX L Ydieresis -100  
KPX L quoteright -92  
KPX L y -55  
KPX L yacute -55  
KPX L ydieresis -55  
KPX Lacute T -92  
KPX Lacute Tcaron -92  
KPX Lacute Tcommaaccent -92  
KPX Lacute V -100  
KPX Lacute W -74  
KPX Lacute Y -100  
KPX Lacute Yacute -100  
KPX Lacute Ydieresis -100  
KPX Lacute quoteright -92  
KPX Lacute y -55  
KPX Lacute yacute -55  
KPX Lacute ydieresis -55  
KPX Lcaron quoteright -92  
KPX Lcaron y -55  
KPX Lcaron yacute -55  
KPX Lcaron ydieresis -55  
KPX Lcommaaccent T -92  
KPX Lcommaaccent Tcaron -92  
KPX Lcommaaccent Tcommaaccent -92



KPX Lcommaaccent V -100  
KPX Lcommaaccent W -74  
KPX Lcommaaccent Y -100  
KPX Lcommaaccent Yacute -100  
KPX Lcommaaccent Ydieresis -100  
KPX Lcommaaccent quoteright -92  
KPX Lcommaaccent y -55  
KPX Lcommaaccent yacute -55  
KPX Lcommaaccent ydieresis -55  
KPX Lslash T -92  
KPX Lslash Tcaron -92  
KPX Lslash Tcommaaccent -92  
KPX Lslash V -100  
KPX Lslash W -74  
KPX Lslash Y -100  
KPX Lslash Yacute -100  
KPX Lslash Ydieresis -100  
KPX Lslash quoteright -92  
KPX Lslash y -55  
KPX Lslash yacute -55  
KPX Lslash ydieresis -55  
KPX N A -35  
KPX N Aacute -35  
KPX N Abreve -35  
KPX N Acircumflex -35  
KPX N Adieresis -35  
KPX N Agrave -35  
KPX N Amacron -35  
KPX N Aogonek -35  
KPX N Aring -35  
KPX N Atilde -35  
KPX Nacute A -35  
KPX Nacute Aacute -35  
KPX Nacute Abreve -35  
KPX Nacute Acircumflex -35  
KPX Nacute Adieresis -35  
KPX Nacute Agrave -35  
KPX Nacute Amacron -35  
KPX Nacute Aogonek -35  
KPX Nacute Aring -35  
KPX Nacute Atilde -35  
KPX Ncaron A -35  
KPX Ncaron Aacute -35  
KPX Ncaron Abreve -35  
KPX Ncaron Acircumflex -35  
KPX Ncaron Adieresis -35  
KPX Ncaron Agrave -35  
KPX Ncaron Amacron -35

KPX Ncaron Aogonek -35  
KPX Ncaron Aring -35  
KPX Ncaron Atilde -35  
KPX Ncommaaccent A -35  
KPX Ncommaaccent Aacute -35  
KPX Ncommaaccent Abreve -35  
KPX Ncommaaccent Acircumflex -35  
KPX Ncommaaccent Adieresis -35  
KPX Ncommaaccent Agrave -35  
KPX Ncommaaccent Amacron -35  
KPX Ncommaaccent Aogonek -35  
KPX Ncommaaccent Aring -35  
KPX Ncommaaccent Atilde -35  
KPX Ntilde A -35  
KPX Ntilde Aacute -35  
KPX Ntilde Abreve -35  
KPX Ntilde Acircumflex -35  
KPX Ntilde Adieresis -35  
KPX Ntilde Agrave -35  
KPX Ntilde Amacron -35  
KPX Ntilde Aogonek -35  
KPX Ntilde Aring -35  
KPX Ntilde Atilde -35  
KPX O A -35  
KPX O Aacute -35  
KPX O Abreve -35  
KPX O Acircumflex -35  
KPX O Adieresis -35  
KPX O Agrave -35  
KPX O Amacron -35  
KPX O Aogonek -35  
KPX O Aring -35  
KPX O Atilde -35  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -35  
KPX O X -40  
KPX O Y -50  
KPX O Yacute -50  
KPX O Ydieresis -50  
KPX Oacute A -35  
KPX Oacute Aacute -35  
KPX Oacute Abreve -35  
KPX Oacute Acircumflex -35  
KPX Oacute Adieresis -35  
KPX Oacute Agrave -35

KPX Oacute Amacron -35  
KPX Oacute Aogonek -35  
KPX Oacute Aring -35  
KPX Oacute Atilde -35  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -35  
KPX Oacute X -40  
KPX Oacute Y -50  
KPX Oacute Yacute -50  
KPX Oacute Ydieresis -50  
KPX Ocircumflex A -35  
KPX Ocircumflex Aacute -35  
KPX Ocircumflex Abreve -35  
KPX Ocircumflex Acircumflex -35  
KPX Ocircumflex Adieresis -35  
KPX Ocircumflex Agrave -35  
KPX Ocircumflex Amacron -35  
KPX Ocircumflex Aogonek -35  
KPX Ocircumflex Aring -35  
KPX Ocircumflex Atilde -35  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -35  
KPX Ocircumflex X -40  
KPX Ocircumflex Y -50  
KPX Ocircumflex Yacute -50  
KPX Ocircumflex Ydieresis -50  
KPX Odieresis A -35  
KPX Odieresis Aacute -35  
KPX Odieresis Abreve -35  
KPX Odieresis Acircumflex -35  
KPX Odieresis Adieresis -35  
KPX Odieresis Agrave -35  
KPX Odieresis Amacron -35  
KPX Odieresis Aogonek -35  
KPX Odieresis Aring -35  
KPX Odieresis Atilde -35  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -35  
KPX Odieresis X -40

KPX Odieresis Y -50  
KPX Odieresis Yacute -50  
KPX Odieresis Ydieresis -50  
KPX Ograve A -35  
KPX Ograve Aacute -35  
KPX Ograve Abreve -35  
KPX Ograve Acircumflex -35  
KPX Ograve Adieresis -35  
KPX Ograve Agrave -35  
KPX Ograve Amacron -35  
KPX Ograve Aogonek -35  
KPX Ograve Aring -35  
KPX Ograve Atilde -35  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -35  
KPX Ograve X -40  
KPX Ograve Y -50  
KPX Ograve Yacute -50  
KPX Ograve Ydieresis -50  
KPX Ohungarumlaut A -35  
KPX Ohungarumlaut Aacute -35  
KPX Ohungarumlaut Abreve -35  
KPX Ohungarumlaut Acircumflex -35  
KPX Ohungarumlaut Adieresis -35  
KPX Ohungarumlaut Agrave -35  
KPX Ohungarumlaut Amacron -35  
KPX Ohungarumlaut Aogonek -35  
KPX Ohungarumlaut Aring -35  
KPX Ohungarumlaut Atilde -35  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -35  
KPX Ohungarumlaut X -40  
KPX Ohungarumlaut Y -50  
KPX Ohungarumlaut Yacute -50  
KPX Ohungarumlaut Ydieresis -50  
KPX Omacron A -35  
KPX Omacron Aacute -35  
KPX Omacron Abreve -35  
KPX Omacron Acircumflex -35  
KPX Omacron Adieresis -35  
KPX Omacron Agrave -35  
KPX Omacron Amacron -35

KPX Omacron Aogonek -35  
KPX Omacron Aring -35  
KPX Omacron Atilde -35  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -35  
KPX Omacron X -40  
KPX Omacron Y -50  
KPX Omacron Yacute -50  
KPX Omacron Ydieresis -50  
KPX Oslash A -35  
KPX Oslash Aacute -35  
KPX Oslash Abreve -35  
KPX Oslash Acircumflex -35  
KPX Oslash Adieresis -35  
KPX Oslash Agrave -35  
KPX Oslash Amacron -35  
KPX Oslash Aogonek -35  
KPX Oslash Aring -35  
KPX Oslash Atilde -35  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -35  
KPX Oslash X -40  
KPX Oslash Y -50  
KPX Oslash Yacute -50  
KPX Oslash Ydieresis -50  
KPX Otilde A -35  
KPX Otilde Aacute -35  
KPX Otilde Abreve -35  
KPX Otilde Acircumflex -35  
KPX Otilde Adieresis -35  
KPX Otilde Agrave -35  
KPX Otilde Amacron -35  
KPX Otilde Aogonek -35  
KPX Otilde Aring -35  
KPX Otilde Atilde -35  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -35  
KPX Otilde X -40  
KPX Otilde Y -50

KPX Otilde Yacute -50  
KPX Otilde Ydieresis -50  
KPX P A -92  
KPX P Aacute -92  
KPX P Abreve -92  
KPX P Acircumflex -92  
KPX P Adieresis -92  
KPX P Agrave -92  
KPX P Amacron -92  
KPX P Aogonek -92  
KPX P Aring -92  
KPX P Atilde -92  
KPX P a -15  
KPX P aacute -15  
KPX P abreve -15  
KPX P acircumflex -15  
KPX P adieresis -15  
KPX P agrave -15  
KPX P amacron -15  
KPX P aogonek -15  
KPX P aring -15  
KPX P atilde -15  
KPX P comma -111  
KPX P period -111  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX R O -40  
KPX R Oacute -40  
KPX R Ocircumflex -40  
KPX R Odieresis -40  
KPX R Ograve -40  
KPX R Ohungarumlaut -40  
KPX R Omacron -40  
KPX R Oslash -40  
KPX R Otilde -40  
KPX R T -60  
KPX R Tcaron -60  
KPX R Tcommaaccent -60  
KPX R U -40  
KPX R Uacute -40  
KPX R Ucircumflex -40

KPX R Udieresis -40  
KPX R Ugrave -40  
KPX R Uhungarumlaut -40  
KPX R Umacron -40  
KPX R Uogonek -40  
KPX R Uring -40  
KPX R V -80  
KPX R W -55  
KPX R Y -65  
KPX R Yacute -65  
KPX R Ydieresis -65  
KPX Racute O -40  
KPX Racute Oacute -40  
KPX Racute Ocircumflex -40  
KPX Racute Odieresis -40  
KPX Racute Ograve -40  
KPX Racute Ohungarumlaut -40  
KPX Racute Omacron -40  
KPX Racute Oslash -40  
KPX Racute Otilde -40  
KPX Racute T -60  
KPX Racute Tcaron -60  
KPX Racute Tcommaaccent -60  
KPX Racute U -40  
KPX Racute Uacute -40  
KPX Racute Ucircumflex -40  
KPX Racute Udieresis -40  
KPX Racute Ugrave -40  
KPX Racute Uhungarumlaut -40  
KPX Racute Umacron -40  
KPX Racute Uogonek -40  
KPX Racute Uring -40  
KPX Racute V -80  
KPX Racute W -55  
KPX Racute Y -65  
KPX Racute Yacute -65  
KPX Racute Ydieresis -65  
KPX Rcaron O -40  
KPX Rcaron Oacute -40  
KPX Rcaron Ocircumflex -40  
KPX Rcaron Odieresis -40  
KPX Rcaron Ograve -40  
KPX Rcaron Ohungarumlaut -40  
KPX Rcaron Omacron -40  
KPX Rcaron Oslash -40  
KPX Rcaron Otilde -40  
KPX Rcaron T -60  
KPX Rcaron Tcaron -60

KPX Rcaron Tcommaaccent -60  
KPX Rcaron U -40  
KPX Rcaron Uacute -40  
KPX Rcaron Ucircumflex -40  
KPX Rcaron Udieresis -40  
KPX Rcaron Ugrave -40  
KPX Rcaron Uhungarumlaut -40  
KPX Rcaron Umacron -40  
KPX Rcaron Uogonek -40  
KPX Rcaron Uring -40  
KPX Rcaron V -80  
KPX Rcaron W -55  
KPX Rcaron Y -65  
KPX Rcaron Yacute -65  
KPX Rcaron Ydieresis -65  
KPX Rcommaaccent O -40  
KPX Rcommaaccent Oacute -40  
KPX Rcommaaccent Ocircumflex -40  
KPX Rcommaaccent Odieresis -40  
KPX Rcommaaccent Ograve -40  
KPX Rcommaaccent Ohungarumlaut -40  
KPX Rcommaaccent Omacron -40  
KPX Rcommaaccent Oslash -40  
KPX Rcommaaccent Otilde -40  
KPX Rcommaaccent T -60  
KPX Rcommaaccent Tcaron -60  
KPX Rcommaaccent Tcommaaccent -60  
KPX Rcommaaccent U -40  
KPX Rcommaaccent Uacute -40  
KPX Rcommaaccent Ucircumflex -40  
KPX Rcommaaccent Udieresis -40  
KPX Rcommaaccent Ugrave -40  
KPX Rcommaaccent Uhungarumlaut -40  
KPX Rcommaaccent Umacron -40  
KPX Rcommaaccent Uogonek -40  
KPX Rcommaaccent Uring -40  
KPX Rcommaaccent V -80  
KPX Rcommaaccent W -55  
KPX Rcommaaccent Y -65  
KPX Rcommaaccent Yacute -65  
KPX Rcommaaccent Ydieresis -65  
KPX T A -93  
KPX T Aacute -93  
KPX T Abreve -93  
KPX T Acircumflex -93  
KPX T Adieresis -93  
KPX T Agrave -93  
KPX T Amacron -93



KPX T Aogonek -93  
KPX T Aring -93  
KPX T Atilde -93  
KPX T O -18  
KPX T Oacute -18  
KPX T Ocircumflex -18  
KPX T Odieresis -18  
KPX T Ograve -18  
KPX T Ohungarumlaut -18  
KPX T Omacron -18  
KPX T Oslash -18  
KPX T Otilde -18  
KPX T a -80  
KPX T aacute -80  
KPX T abreve -80  
KPX T acircumflex -80  
KPX T adieresis -40  
KPX T agrave -40  
KPX T amacron -40  
KPX T aogonek -80  
KPX T aring -80  
KPX T atilde -40  
KPX T colon -50  
KPX T comma -74  
KPX T e -70  
KPX T eacute -70  
KPX T ecaron -70  
KPX T ecircumflex -70  
KPX T edieresis -30  
KPX T edotaccent -70  
KPX T egrave -70  
KPX T emacron -30  
KPX T eogonek -70  
KPX T hyphen -92  
KPX T i -35  
KPX T iacute -35  
KPX T iogonek -35  
KPX T o -80  
KPX T oacute -80  
KPX T ocircumflex -80  
KPX T odieresis -80  
KPX T ograve -80  
KPX T ohungarumlaut -80  
KPX T omacron -80  
KPX T oslash -80  
KPX T otilde -80  
KPX T period -74  
KPX T r -35

KPX T racute -35  
KPX T rcaron -35  
KPX T rcommaaccent -35  
KPX T semicolon -55  
KPX T u -45  
KPX T uacute -45  
KPX T ucircumflex -45  
KPX T udieresis -45  
KPX T ugrave -45  
KPX T uhungarumlaut -45  
KPX T umacron -45  
KPX T uogonek -45  
KPX T uring -45  
KPX T w -80  
KPX T y -80  
KPX T yacute -80  
KPX T ydieresis -80  
KPX Tcaron A -93  
KPX Tcaron Aacute -93  
KPX Tcaron Abreve -93  
KPX Tcaron Acircumflex -93  
KPX Tcaron Adieresis -93  
KPX Tcaron Agrave -93  
KPX Tcaron Amacron -93  
KPX Tcaron Aogonek -93  
KPX Tcaron Aring -93  
KPX Tcaron Atilde -93  
KPX Tcaron O -18  
KPX Tcaron Oacute -18  
KPX Tcaron Ocircumflex -18  
KPX Tcaron Odieresis -18  
KPX Tcaron Ograve -18  
KPX Tcaron Ohungarumlaut -18  
KPX Tcaron Omacron -18  
KPX Tcaron Oslash -18  
KPX Tcaron Otilde -18  
KPX Tcaron a -80  
KPX Tcaron aacute -80  
KPX Tcaron abreve -80  
KPX Tcaron acircumflex -80  
KPX Tcaron adieresis -40  
KPX Tcaron agrave -40  
KPX Tcaron amacron -40  
KPX Tcaron aogonek -80  
KPX Tcaron aring -80  
KPX Tcaron atilde -40  
KPX Tcaron colon -50  
KPX Tcaron comma -74

KPX Tcaron e -70  
KPX Tcaron eacute -70  
KPX Tcaron ecaron -70  
KPX Tcaron ecircumflex -30  
KPX Tcaron edieresis -30  
KPX Tcaron edotaccent -70  
KPX Tcaron egrave -70  
KPX Tcaron emacron -30  
KPX Tcaron eogonek -70  
KPX Tcaron hyphen -92  
KPX Tcaron i -35  
KPX Tcaron iacute -35  
KPX Tcaron iogonek -35  
KPX Tcaron o -80  
KPX Tcaron oacute -80  
KPX Tcaron ocircumflex -80  
KPX Tcaron odieresis -80  
KPX Tcaron ograve -80  
KPX Tcaron ohungarumlaut -80  
KPX Tcaron omacron -80  
KPX Tcaron oslash -80  
KPX Tcaron otilde -80  
KPX Tcaron period -74  
KPX Tcaron r -35  
KPX Tcaron racute -35  
KPX Tcaron rcaron -35  
KPX Tcaron rcommaaccent -35  
KPX Tcaron semicolon -55  
KPX Tcaron u -45  
KPX Tcaron uacute -45  
KPX Tcaron ucircumflex -45  
KPX Tcaron udieresis -45  
KPX Tcaron ugrave -45  
KPX Tcaron uhungarumlaut -45  
KPX Tcaron umacron -45  
KPX Tcaron uogonek -45  
KPX Tcaron uring -45  
KPX Tcaron w -80  
KPX Tcaron y -80  
KPX Tcaron yacute -80  
KPX Tcaron ydieresis -80  
KPX Tcommaaccent A -93  
KPX Tcommaaccent Aacute -93  
KPX Tcommaaccent Abreve -93  
KPX Tcommaaccent Acircumflex -93  
KPX Tcommaaccent Adieresis -93  
KPX Tcommaaccent Agrave -93  
KPX Tcommaaccent Amacron -93

KPX Tcommaaccent Aogonek -93  
KPX Tcommaaccent Aring -93  
KPX Tcommaaccent Atilde -93  
KPX Tcommaaccent O -18  
KPX Tcommaaccent Oacute -18  
KPX Tcommaaccent Ocircumflex -18  
KPX Tcommaaccent Odieresis -18  
KPX Tcommaaccent Ograve -18  
KPX Tcommaaccent Ohungarumlaut -18  
KPX Tcommaaccent Omacron -18  
KPX Tcommaaccent Oslash -18  
KPX Tcommaaccent Otilde -18  
KPX Tcommaaccent a -80  
KPX Tcommaaccent aacute -80  
KPX Tcommaaccent abreve -80  
KPX Tcommaaccent acircumflex -80  
KPX Tcommaaccent adieresis -40  
KPX Tcommaaccent agrave -40  
KPX Tcommaaccent amacron -40  
KPX Tcommaaccent aogonek -80  
KPX Tcommaaccent aring -80  
KPX Tcommaaccent atilde -40  
KPX Tcommaaccent colon -50  
KPX Tcommaaccent comma -74  
KPX Tcommaaccent e -70  
KPX Tcommaaccent eacute -70  
KPX Tcommaaccent ecaron -70  
KPX Tcommaaccent ecircumflex -30  
KPX Tcommaaccent edieresis -30  
KPX Tcommaaccent edotaccent -70  
KPX Tcommaaccent egrave -30  
KPX Tcommaaccent emacron -70  
KPX Tcommaaccent eogonek -70  
KPX Tcommaaccent hyphen -92  
KPX Tcommaaccent i -35  
KPX Tcommaaccent iacute -35  
KPX Tcommaaccent iogonek -35  
KPX Tcommaaccent o -80  
KPX Tcommaaccent oacute -80  
KPX Tcommaaccent ocircumflex -80  
KPX Tcommaaccent odieresis -80  
KPX Tcommaaccent ograve -80  
KPX Tcommaaccent ohungarumlaut -80  
KPX Tcommaaccent omacron -80  
KPX Tcommaaccent oslash -80  
KPX Tcommaaccent otilde -80  
KPX Tcommaaccent period -74  
KPX Tcommaaccent r -35

KPX Tcommaaccent racute -35  
KPX Tcommaaccent rcaron -35  
KPX Tcommaaccent rcommaaccent -35  
KPX Tcommaaccent semicolon -55  
KPX Tcommaaccent u -45  
KPX Tcommaaccent uacute -45  
KPX Tcommaaccent ucircumflex -45  
KPX Tcommaaccent udieresis -45  
KPX Tcommaaccent ugrave -45  
KPX Tcommaaccent uhungarumlaut -45  
KPX Tcommaaccent umacron -45  
KPX Tcommaaccent uogonek -45  
KPX Tcommaaccent uring -45  
KPX Tcommaaccent w -80  
KPX Tcommaaccent y -80  
KPX Tcommaaccent yacute -80  
KPX Tcommaaccent ydieresis -80  
KPX U A -40  
KPX U Aacute -40  
KPX U Abreve -40  
KPX U Acircumflex -40  
KPX U Adieresis -40  
KPX U Agrave -40  
KPX U Amacron -40  
KPX U Aogonek -40  
KPX U Aring -40  
KPX U Atilde -40  
KPX Uacute A -40  
KPX Uacute Aacute -40  
KPX Uacute Abreve -40  
KPX Uacute Acircumflex -40  
KPX Uacute Adieresis -40  
KPX Uacute Agrave -40  
KPX Uacute Amacron -40  
KPX Uacute Aogonek -40  
KPX Uacute Aring -40  
KPX Uacute Atilde -40  
KPX Ucircumflex A -40  
KPX Ucircumflex Aacute -40  
KPX Ucircumflex Abreve -40  
KPX Ucircumflex Acircumflex -40  
KPX Ucircumflex Adieresis -40  
KPX Ucircumflex Agrave -40  
KPX Ucircumflex Amacron -40  
KPX Ucircumflex Aogonek -40  
KPX Ucircumflex Aring -40  
KPX Ucircumflex Atilde -40  
KPX Udieresis A -40

KPX Udieresis Aacute -40  
KPX Udieresis Abreve -40  
KPX Udieresis Acircumflex -40  
KPX Udieresis Adieresis -40  
KPX Udieresis Agrave -40  
KPX Udieresis Amacron -40  
KPX Udieresis Aogonek -40  
KPX Udieresis Aring -40  
KPX Udieresis Atilde -40  
KPX Ugrave A -40  
KPX Ugrave Aacute -40  
KPX Ugrave Abreve -40  
KPX Ugrave Acircumflex -40  
KPX Ugrave Adieresis -40  
KPX Ugrave Agrave -40  
KPX Ugrave Amacron -40  
KPX Ugrave Aogonek -40  
KPX Ugrave Aring -40  
KPX Ugrave Atilde -40  
KPX Uhungarumlaut A -40  
KPX Uhungarumlaut Aacute -40  
KPX Uhungarumlaut Abreve -40  
KPX Uhungarumlaut Acircumflex -40  
KPX Uhungarumlaut Adieresis -40  
KPX Uhungarumlaut Agrave -40  
KPX Uhungarumlaut Amacron -40  
KPX Uhungarumlaut Aogonek -40  
KPX Uhungarumlaut Aring -40  
KPX Uhungarumlaut Atilde -40  
KPX Umacron A -40  
KPX Umacron Aacute -40  
KPX Umacron Abreve -40  
KPX Umacron Acircumflex -40  
KPX Umacron Adieresis -40  
KPX Umacron Agrave -40  
KPX Umacron Amacron -40  
KPX Umacron Aogonek -40  
KPX Umacron Aring -40  
KPX Umacron Atilde -40  
KPX Uogonek A -40  
KPX Uogonek Aacute -40  
KPX Uogonek Abreve -40  
KPX Uogonek Acircumflex -40  
KPX Uogonek Adieresis -40  
KPX Uogonek Agrave -40  
KPX Uogonek Amacron -40  
KPX Uogonek Aogonek -40  
KPX Uogonek Aring -40

KPX Uogonek Atilde -40  
KPX Uring A -40  
KPX Uring Aacute -40  
KPX Uring Abreve -40  
KPX Uring Acircumflex -40  
KPX Uring Adieresis -40  
KPX Uring Agrave -40  
KPX Uring Amacron -40  
KPX Uring Aogonek -40  
KPX Uring Aring -40  
KPX Uring Atilde -40  
KPX V A -135  
KPX V Aacute -135  
KPX V Abreve -135  
KPX V Acircumflex -135  
KPX V Adieresis -135  
KPX V Agrave -135  
KPX V Amacron -135  
KPX V Aogonek -135  
KPX V Aring -135  
KPX V Atilde -135  
KPX V G -15  
KPX V Gbreve -15  
KPX V Gcommaaccent -15  
KPX V O -40  
KPX V Oacute -40  
KPX V Ocircumflex -40  
KPX V Odieresis -40  
KPX V Ograve -40  
KPX V Ohungarumlaut -40  
KPX V Omacron -40  
KPX V Oslash -40  
KPX V Otilde -40  
KPX V a -111  
KPX V aacute -111  
KPX V abreve -111  
KPX V acircumflex -71  
KPX V adieresis -71  
KPX V agrave -71  
KPX V amacron -71  
KPX V aogonek -111  
KPX V aring -111  
KPX V atilde -71  
KPX V colon -74  
KPX V comma -129  
KPX V e -111  
KPX V eacute -111  
KPX V ecaron -71

KPX V ecircumflex -71  
KPX V edieresis -71  
KPX V edotaccent -111  
KPX V egrave -71  
KPX V emacron -71  
KPX V eogonek -111  
KPX V hyphen -100  
KPX V i -60  
KPX V iacute -60  
KPX V icircumflex -20  
KPX V idieresis -20  
KPX V igrave -20  
KPX V imacron -20  
KPX V iogonek -60  
KPX V o -129  
KPX V oacute -129  
KPX V ocircumflex -129  
KPX V odieresis -89  
KPX V ograve -89  
KPX V ohungarumlaut -129  
KPX V omacron -89  
KPX V oslash -129  
KPX V otilde -89  
KPX V period -129  
KPX V semicolon -74  
KPX V u -75  
KPX V uacute -75  
KPX V ucircumflex -75  
KPX V udieresis -75  
KPX V ugrave -75  
KPX V uhungarumlaut -75  
KPX V umacron -75  
KPX V uogonek -75  
KPX V uring -75  
KPX W A -120  
KPX W Aacute -120  
KPX W Abreve -120  
KPX W Acircumflex -120  
KPX W Adieresis -120  
KPX W Agrave -120  
KPX W Amacron -120  
KPX W Aogonek -120  
KPX W Aring -120  
KPX W Atilde -120  
KPX W O -10  
KPX W Oacute -10  
KPX W Ocircumflex -10  
KPX W Odieresis -10



KPX W Ograve -10  
KPX W Ohungarumlaut -10  
KPX W Omacron -10  
KPX W Oslash -10  
KPX W Otilde -10  
KPX W a -80  
KPX W aacute -80  
KPX W abreve -80  
KPX W acircumflex -80  
KPX W adieresis -80  
KPX W agrave -80  
KPX W amacron -80  
KPX W aogonek -80  
KPX W aring -80  
KPX W atilde -80  
KPX W colon -37  
KPX W comma -92  
KPX W e -80  
KPX W eacute -80  
KPX W ecaron -80  
KPX W ecircumflex -80  
KPX W edieresis -40  
KPX W edotaccent -80  
KPX W egrave -40  
KPX W emacron -40  
KPX W eogonek -80  
KPX W hyphen -65  
KPX W i -40  
KPX W iacute -40  
KPX W iogonek -40  
KPX W o -80  
KPX W oacute -80  
KPX W ocircumflex -80  
KPX W odieresis -80  
KPX W ograve -80  
KPX W ohungarumlaut -80  
KPX W omacron -80  
KPX W oslash -80  
KPX W otilde -80  
KPX W period -92  
KPX W semicolon -37  
KPX W u -50  
KPX W uacute -50  
KPX W ucircumflex -50  
KPX W udieresis -50  
KPX W ugrave -50  
KPX W uhungarumlaut -50  
KPX W umacron -50

KPX W uogonek -50  
KPX W uring -50  
KPX W y -73  
KPX W yacute -73  
KPX W ydieresis -73  
KPX Y A -120  
KPX Y Aacute -120  
KPX Y Abreve -120  
KPX Y Acircumflex -120  
KPX Y Adieresis -120  
KPX Y Agrave -120  
KPX Y Amacron -120  
KPX Y Aogonek -120  
KPX Y Aring -120  
KPX Y Atilde -120  
KPX Y O -30  
KPX Y Oacute -30  
KPX Y Ocircumflex -30  
KPX Y Odieresis -30  
KPX Y Ograve -30  
KPX Y Ohungarumlaut -30  
KPX Y Omacron -30  
KPX Y Oslash -30  
KPX Y Otilde -30  
KPX Y a -100  
KPX Y aacute -100  
KPX Y abreve -100  
KPX Y acircumflex -100  
KPX Y adieresis -60  
KPX Y agrave -60  
KPX Y amacron -60  
KPX Y aogonek -100  
KPX Y aring -100  
KPX Y atilde -60  
KPX Y colon -92  
KPX Y comma -129  
KPX Y e -100  
KPX Y eacute -100  
KPX Y ecaron -100  
KPX Y ecircumflex -100  
KPX Y edieresis -60  
KPX Y edotaccent -100  
KPX Y egrave -60  
KPX Y emacron -60  
KPX Y eogonek -100  
KPX Y hyphen -111  
KPX Y i -55  
KPX Y iacute -55

KPX Y iogonek -55  
KPX Y o -110  
KPX Y oacute -110  
KPX Y ocircumflex -110  
KPX Y odieresis -70  
KPX Y ograve -70  
KPX Y ohungarumlaut -110  
KPX Y omacron -70  
KPX Y oslash -110  
KPX Y otilde -70  
KPX Y period -129  
KPX Y semicolon -92  
KPX Y u -111  
KPX Y uacute -111  
KPX Y ucircumflex -111  
KPX Y udieresis -71  
KPX Y ugrave -71  
KPX Y uhungarumlaut -111  
KPX Y umacron -71  
KPX Y uogonek -111  
KPX Y uring -111  
KPX Yacute A -120  
KPX Yacute Aacute -120  
KPX Yacute Abreve -120  
KPX Yacute Acircumflex -120  
KPX Yacute Adieresis -120  
KPX Yacute Agrave -120  
KPX Yacute Amacron -120  
KPX Yacute Aogonek -120  
KPX Yacute Aring -120  
KPX Yacute Atilde -120  
KPX Yacute O -30  
KPX Yacute Oacute -30  
KPX Yacute Ocircumflex -30  
KPX Yacute Odieresis -30  
KPX Yacute Ograve -30  
KPX Yacute Ohungarumlaut -30  
KPX Yacute Omacron -30  
KPX Yacute Oslash -30  
KPX Yacute Otilde -30  
KPX Yacute a -100  
KPX Yacute aacute -100  
KPX Yacute abreve -100  
KPX Yacute acircumflex -100  
KPX Yacute adieresis -60  
KPX Yacute agrave -60  
KPX Yacute amacron -60  
KPX Yacute aogonek -100

KPX Yacute aring -100  
KPX Yacute atilde -60  
KPX Yacute colon -92  
KPX Yacute comma -129  
KPX Yacute e -100  
KPX Yacute eacute -100  
KPX Yacute ecaron -100  
KPX Yacute ecircumflex -100  
KPX Yacute edieresis -60  
KPX Yacute edotaccent -100  
KPX Yacute egrave -60  
KPX Yacute emacron -60  
KPX Yacute eogonek -100  
KPX Yacute hyphen -111  
KPX Yacute i -55  
KPX Yacute iacute -55  
KPX Yacute iogonek -55  
KPX Yacute o -110  
KPX Yacute oacute -110  
KPX Yacute ocircumflex -110  
KPX Yacute odieresis -70  
KPX Yacute ograve -70  
KPX Yacute ohungarumlaut -110  
KPX Yacute omacron -70  
KPX Yacute oslash -110  
KPX Yacute otilde -70  
KPX Yacute period -129  
KPX Yacute semicolon -92  
KPX Yacute u -111  
KPX Yacute uacute -111  
KPX Yacute ucircumflex -111  
KPX Yacute udieresis -71  
KPX Yacute ugrave -71  
KPX Yacute uhungarumlaut -111  
KPX Yacute umacron -71  
KPX Yacute uogonek -111  
KPX Yacute uring -111  
KPX Ydieresis A -120  
KPX Ydieresis Aacute -120  
KPX Ydieresis Abreve -120  
KPX Ydieresis Acircumflex -120  
KPX Ydieresis Adieresis -120  
KPX Ydieresis Agrave -120  
KPX Ydieresis Amacron -120  
KPX Ydieresis Aogonek -120  
KPX Ydieresis Aring -120  
KPX Ydieresis Atilde -120  
KPX Ydieresis O -30

KPX Ydieresis Oacute -30  
KPX Ydieresis Ocircumflex -30  
KPX Ydieresis Odieresis -30  
KPX Ydieresis Ograve -30  
KPX Ydieresis Ohungarumlaut -30  
KPX Ydieresis Omacron -30  
KPX Ydieresis Oslash -30  
KPX Ydieresis Otilde -30  
KPX Ydieresis a -100  
KPX Ydieresis aacute -100  
KPX Ydieresis abreve -100  
KPX Ydieresis acircumflex -100  
KPX Ydieresis adieresis -60  
KPX Ydieresis agrave -60  
KPX Ydieresis amacron -60  
KPX Ydieresis aogonek -100  
KPX Ydieresis aring -100  
KPX Ydieresis atilde -100  
KPX Ydieresis colon -92  
KPX Ydieresis comma -129  
KPX Ydieresis e -100  
KPX Ydieresis eacute -100  
KPX Ydieresis ecaron -100  
KPX Ydieresis ecircumflex -100  
KPX Ydieresis edieresis -60  
KPX Ydieresis edotaccent -100  
KPX Ydieresis egrave -60  
KPX Ydieresis emacron -60  
KPX Ydieresis eogonek -100  
KPX Ydieresis hyphen -111  
KPX Ydieresis i -55  
KPX Ydieresis iacute -55  
KPX Ydieresis iogonek -55  
KPX Ydieresis o -110  
KPX Ydieresis oacute -110  
KPX Ydieresis ocircumflex -110  
KPX Ydieresis odieresis -70  
KPX Ydieresis ograve -70  
KPX Ydieresis ohungarumlaut -110  
KPX Ydieresis omacron -70  
KPX Ydieresis oslash -110  
KPX Ydieresis otilde -70  
KPX Ydieresis period -129  
KPX Ydieresis semicolon -92  
KPX Ydieresis u -111  
KPX Ydieresis uacute -111  
KPX Ydieresis ucircumflex -111  
KPX Ydieresis udieresis -71

KPX Ydieresis ugrave -71  
KPX Ydieresis uhungarumlaut -111  
KPX Ydieresis umacron -71  
KPX Ydieresis uogonek -111  
KPX Ydieresis uring -111  
KPX a v -20  
KPX a w -15  
KPX aacute v -20  
KPX aacute w -15  
KPX abreve v -20  
KPX abreve w -15  
KPX acircumflex v -20  
KPX acircumflex w -15  
KPX adieresis v -20  
KPX adieresis w -15  
KPX agrave v -20  
KPX agrave w -15  
KPX amacron v -20  
KPX amacron w -15  
KPX aogonek v -20  
KPX aogonek w -15  
KPX aring v -20  
KPX aring w -15  
KPX atilde v -20  
KPX atilde w -15  
KPX b period -40  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX b v -15  
KPX c y -15  
KPX c yacute -15  
KPX c ydieresis -15  
KPX cacute y -15  
KPX cacute yacute -15  
KPX cacute ydieresis -15  
KPX ccaron y -15  
KPX ccaron yacute -15  
KPX ccaron ydieresis -15  
KPX ccedilla y -15  
KPX ccedilla yacute -15  
KPX ccedilla ydieresis -15

KPX comma quotedblright -70  
KPX comma quoteright -70  
KPX e g -15  
KPX e gbreve -15  
KPX e gcommaaccent -15  
KPX e v -25  
KPX e w -25  
KPX e x -15  
KPX e y -15  
KPX e yacute -15  
KPX e ydieresis -15  
KPX eacute g -15  
KPX eacute gbreve -15  
KPX eacute gcommaaccent -15  
KPX eacute v -25  
KPX eacute w -25  
KPX eacute x -15  
KPX eacute y -15  
KPX eacute yacute -15  
KPX eacute ydieresis -15  
KPX ecaron g -15  
KPX ecaron gbreve -15  
KPX ecaron gcommaaccent -15  
KPX ecaron v -25  
KPX ecaron w -25  
KPX ecaron x -15  
KPX ecaron y -15  
KPX ecaron yacute -15  
KPX ecaron ydieresis -15  
KPX ecircumflex g -15  
KPX ecircumflex gbreve -15  
KPX ecircumflex gcommaaccent -15  
KPX ecircumflex v -25  
KPX ecircumflex w -25  
KPX ecircumflex x -15  
KPX ecircumflex y -15  
KPX ecircumflex yacute -15  
KPX ecircumflex ydieresis -15  
KPX edieresis g -15  
KPX edieresis gbreve -15  
KPX edieresis gcommaaccent -15  
KPX edieresis v -25  
KPX edieresis w -25  
KPX edieresis x -15  
KPX edieresis y -15  
KPX edieresis yacute -15  
KPX edieresis ydieresis -15  
KPX edotaccent g -15

KPX edotaccent gbreve -15  
KPX edotaccent gcommaaccent -15  
KPX edotaccent v -25  
KPX edotaccent w -25  
KPX edotaccent x -15  
KPX edotaccent y -15  
KPX edotaccent yacute -15  
KPX edotaccent ydieresis -15  
KPX egrave g -15  
KPX egrave gbreve -15  
KPX egrave gcommaaccent -15  
KPX egrave v -25  
KPX egrave w -25  
KPX egrave x -15  
KPX egrave y -15  
KPX egrave yacute -15  
KPX egrave ydieresis -15  
KPX emacron g -15  
KPX emacron gbreve -15  
KPX emacron gcommaaccent -15  
KPX emacron v -25  
KPX emacron w -25  
KPX emacron x -15  
KPX emacron y -15  
KPX emacron yacute -15  
KPX emacron ydieresis -15  
KPX eogonek g -15  
KPX eogonek gbreve -15  
KPX eogonek gcommaaccent -15  
KPX eogonek v -25  
KPX eogonek w -25  
KPX eogonek x -15  
KPX eogonek y -15  
KPX eogonek yacute -15  
KPX eogonek ydieresis -15  
KPX f a -10  
KPX f aacute -10  
KPX f abreve -10  
KPX f acircumflex -10  
KPX f adieresis -10  
KPX f agrave -10  
KPX f amacron -10  
KPX f aogonek -10  
KPX f aring -10  
KPX f atilde -10  
KPX f dotlessi -50  
KPX f f -25  
KPX f i -20



KPX f iacute -20  
KPX f quoteright 55  
KPX g a -5  
KPX g aacute -5  
KPX g abreve -5  
KPX g acircumflex -5  
KPX g adieresis -5  
KPX g agrave -5  
KPX g amacron -5  
KPX g aogonek -5  
KPX g aring -5  
KPX g atilde -5  
KPX gbreve a -5  
KPX gbreve aacute -5  
KPX gbreve abreve -5  
KPX gbreve acircumflex -5  
KPX gbreve adieresis -5  
KPX gbreve agrave -5  
KPX gbreve amacron -5  
KPX gbreve aogonek -5  
KPX gbreve aring -5  
KPX gbreve atilde -5  
KPX gcommaaccent a -5  
KPX gcommaaccent aacute -5  
KPX gcommaaccent abreve -5  
KPX gcommaaccent acircumflex -5  
KPX gcommaaccent adieresis -5  
KPX gcommaaccent agrave -5  
KPX gcommaaccent amacron -5  
KPX gcommaaccent aogonek -5  
KPX gcommaaccent aring -5  
KPX gcommaaccent atilde -5  
KPX h y -5  
KPX h yacute -5  
KPX h ydieresis -5  
KPX i v -25  
KPX iacute v -25  
KPX icircumflex v -25  
KPX idieresis v -25  
KPX igrave v -25  
KPX imacron v -25  
KPX iogonek v -25  
KPX k e -10  
KPX k eacute -10  
KPX k ecaron -10  
KPX k ecircumflex -10  
KPX k edieresis -10  
KPX k edotaccent -10

KPX k egrave -10  
KPX k emacron -10  
KPX k eogonek -10  
KPX k o -10  
KPX k oacute -10  
KPX k ocircumflex -10  
KPX k odieresis -10  
KPX k ograve -10  
KPX k ohungarumlaut -10  
KPX k omacron -10  
KPX k oslash -10  
KPX k otilde -10  
KPX k y -15  
KPX k yacute -15  
KPX k ydieresis -15  
KPX kcommaaccent e -10  
KPX kcommaaccent eacute -10  
KPX kcommaaccent ecaron -10  
KPX kcommaaccent ecircumflex -10  
KPX kcommaaccent edieresis -10  
KPX kcommaaccent edotaccent -10  
KPX kcommaaccent egrave -10  
KPX kcommaaccent emacron -10  
KPX kcommaaccent eogonek -10  
KPX kcommaaccent o -10  
KPX kcommaaccent oacute -10  
KPX kcommaaccent ocircumflex -10  
KPX kcommaaccent odieresis -10  
KPX kcommaaccent ograve -10  
KPX kcommaaccent ohungarumlaut -10  
KPX kcommaaccent omacron -10  
KPX kcommaaccent oslash -10  
KPX kcommaaccent otilde -10  
KPX kcommaaccent y -15  
KPX kcommaaccent yacute -15  
KPX kcommaaccent ydieresis -15  
KPX l w -10  
KPX lacute w -10  
KPX lcommaaccent w -10  
KPX lslash w -10  
KPX n v -40  
KPX n y -15  
KPX n yacute -15  
KPX n ydieresis -15  
KPX nacute v -40  
KPX nacute y -15  
KPX nacute yacute -15  
KPX nacute ydieresis -15

KPX ncaron v -40  
KPX ncaron y -15  
KPX ncaron yacute -15  
KPX ncaron ydieresis -15  
KPX ncommaaccent v -40  
KPX ncommaaccent y -15  
KPX ncommaaccent yacute -15  
KPX ncommaaccent ydieresis -15  
KPX ntilde v -40  
KPX ntilde y -15  
KPX ntilde yacute -15  
KPX ntilde ydieresis -15  
KPX o v -15  
KPX o w -25  
KPX o y -10  
KPX o yacute -10  
KPX o ydieresis -10  
KPX oacute v -15  
KPX oacute w -25  
KPX oacute y -10  
KPX oacute yacute -10  
KPX oacute ydieresis -10  
KPX ocircumflex v -15  
KPX ocircumflex w -25  
KPX ocircumflex y -10  
KPX ocircumflex yacute -10  
KPX ocircumflex ydieresis -10  
KPX odieresis v -15  
KPX odieresis w -25  
KPX odieresis y -10  
KPX odieresis yacute -10  
KPX odieresis ydieresis -10  
KPX ograve v -15  
KPX ograve w -25  
KPX ograve y -10  
KPX ograve yacute -10  
KPX ograve ydieresis -10  
KPX ohungarumlaut v -15  
KPX ohungarumlaut w -25  
KPX ohungarumlaut y -10  
KPX ohungarumlaut yacute -10  
KPX ohungarumlaut ydieresis -10  
KPX omacron v -15  
KPX omacron w -25  
KPX omacron y -10  
KPX omacron yacute -10  
KPX omacron ydieresis -10  
KPX oslash v -15

KPX oslash w -25  
KPX oslash y -10  
KPX oslash yacute -10  
KPX oslash ydieresis -10  
KPX otilde v -15  
KPX otilde w -25  
KPX otilde y -10  
KPX otilde yacute -10  
KPX otilde ydieresis -10  
KPX p y -10  
KPX p yacute -10  
KPX p ydieresis -10  
KPX period quotedblright -70  
KPX period quoteright -70  
KPX quotedblleft A -80  
KPX quotedblleft Aacute -80  
KPX quotedblleft Abreve -80  
KPX quotedblleft Acircumflex -80  
KPX quotedblleft Adieresis -80  
KPX quotedblleft Agrave -80  
KPX quotedblleft Amacron -80  
KPX quotedblleft Aogonek -80  
KPX quotedblleft Aring -80  
KPX quotedblleft Atilde -80  
KPX quoteleft A -80  
KPX quoteleft Aacute -80  
KPX quoteleft Abreve -80  
KPX quoteleft Acircumflex -80  
KPX quoteleft Adieresis -80  
KPX quoteleft Agrave -80  
KPX quoteleft Amacron -80  
KPX quoteleft Aogonek -80  
KPX quoteleft Aring -80  
KPX quoteleft Atilde -80  
KPX quoteleft quoteleft -74  
KPX quoteright d -50  
KPX quoteright dcroat -50  
KPX quoteright l -10  
KPX quoteright lacute -10  
KPX quoteright lcommaaccent -10  
KPX quoteright lslash -10  
KPX quoteright quoteright -74  
KPX quoteright r -50  
KPX quoteright racute -50  
KPX quoteright rcaron -50  
KPX quoteright rcommaaccent -50  
KPX quoteright s -55  
KPX quoteright sacute -55

KPX quoteright scaron -55  
KPX quoteright scedilla -55  
KPX quoteright scommaaccent -55  
KPX quoteright space -74  
KPX quoteright t -18  
KPX quoteright tcommaaccent -18  
KPX quoteright v -50  
KPX r comma -40  
KPX r g -18  
KPX r gbreve -18  
KPX r gcommaaccent -18  
KPX r hyphen -20  
KPX r period -55  
KPX racute comma -40  
KPX racute g -18  
KPX racute gbreve -18  
KPX racute gcommaaccent -18  
KPX racute hyphen -20  
KPX racute period -55  
KPX rcaron comma -40  
KPX rcaron g -18  
KPX rcaron gbreve -18  
KPX rcaron gcommaaccent -18  
KPX rcaron hyphen -20  
KPX rcaron period -55  
KPX rcommaaccent comma -40  
KPX rcommaaccent g -18  
KPX rcommaaccent gbreve -18  
KPX rcommaaccent gcommaaccent -18  
KPX rcommaaccent hyphen -20  
KPX rcommaaccent period -55  
KPX space A -55  
KPX space Aacute -55  
KPX space Abreve -55  
KPX space Acircumflex -55  
KPX space Adieresis -55  
KPX space Agrave -55  
KPX space Amacron -55  
KPX space Aogonek -55  
KPX space Aring -55  
KPX space Atilde -55  
KPX space T -18  
KPX space Tcaron -18  
KPX space Tcommaaccent -18  
KPX space V -50  
KPX space W -30  
KPX space Y -90  
KPX space Yacute -90

KPX space Ydieresis -90  
KPX v a -25  
KPX v aacute -25  
KPX v abreve -25  
KPX v acircumflex -25  
KPX v adieresis -25  
KPX v agrave -25  
KPX v amacron -25  
KPX v aogonek -25  
KPX v aring -25  
KPX v atilde -25  
KPX v comma -65  
KPX v e -15  
KPX v eacute -15  
KPX v ecaron -15  
KPX v ecircumflex -15  
KPX v edieresis -15  
KPX v edotaccent -15  
KPX v egrave -15  
KPX v emacron -15  
KPX v eogonek -15  
KPX v o -20  
KPX v oacute -20  
KPX v ocircumflex -20  
KPX v odieresis -20  
KPX v ograve -20  
KPX v ohungarumlaut -20  
KPX v omacron -20  
KPX v oslash -20  
KPX v otilde -20  
KPX v period -65  
KPX w a -10  
KPX w aacute -10  
KPX w abreve -10  
KPX w acircumflex -10  
KPX w adieresis -10  
KPX w agrave -10  
KPX w amacron -10  
KPX w aogonek -10  
KPX w aring -10  
KPX w atilde -10  
KPX w comma -65  
KPX w o -10  
KPX w oacute -10  
KPX w ocircumflex -10  
KPX w odieresis -10  
KPX w ograve -10  
KPX w ohungarumlaut -10

KPX w o macron -10  
KPX w o slash -10  
KPX w o tilde -10  
KPX w period -65  
KPX x e -15  
KPX x e acute -15  
KPX x e caron -15  
KPX x e circumflex -15  
KPX x e dieresis -15  
KPX x e dotaccent -15  
KPX x e grave -15  
KPX x e macron -15  
KPX x e ogonek -15  
KPX y comma -65  
KPX y period -65  
KPX y acute comma -65  
KPX y acute period -65  
KPX y dieresis comma -65  
KPX y dieresis period -65  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 4.1  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu May 1 12:45:12 1997  
Comment UniqueID 43053  
Comment VMusage 14482 68586  
FontName Helvetica-BoldOblique  
FullName Helvetica Bold Oblique  
FamilyName Helvetica  
Weight Bold  
ItalicAngle -12  
IsFixedPitch false  
CharacterSet ExtendedRoman  
FontBBox -174 -228 1114 962  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.000  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype-Hell AG and/or its subsidiaries.  
EncodingScheme AdobeStandardEncoding  
CapHeight 718  
XHeight 532  
Ascender 718  
Descender -207  
StdHW 118  
StdVW 140  
StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;  
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;  
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;  
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;  
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;  
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;  
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;  
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;  
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;  
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;  
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;  
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;  
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;  
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;  
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;  
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;  
C 49 ; WX 556 ; N one ; B 173 0 529 710 ;  
C 50 ; WX 556 ; N two ; B 26 0 619 710 ;  
C 51 ; WX 556 ; N three ; B 65 -19 608 710 ;  
C 52 ; WX 556 ; N four ; B 60 0 598 710 ;  
C 53 ; WX 556 ; N five ; B 64 -19 636 698 ;  
C 54 ; WX 556 ; N six ; B 85 -19 619 710 ;  
C 55 ; WX 556 ; N seven ; B 125 0 676 698 ;  
C 56 ; WX 556 ; N eight ; B 69 -19 616 710 ;  
C 57 ; WX 556 ; N nine ; B 78 -19 615 710 ;  
C 58 ; WX 333 ; N colon ; B 92 0 351 512 ;  
C 59 ; WX 333 ; N semicolon ; B 56 -168 351 512 ;  
C 60 ; WX 584 ; N less ; B 82 -8 655 514 ;  
C 61 ; WX 584 ; N equal ; B 58 87 633 419 ;  
C 62 ; WX 584 ; N greater ; B 36 -8 609 514 ;  
C 63 ; WX 611 ; N question ; B 165 0 671 727 ;  
C 64 ; WX 975 ; N at ; B 186 -19 954 737 ;  
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;  
C 66 ; WX 722 ; N B ; B 76 0 764 718 ;  
C 67 ; WX 722 ; N C ; B 107 -19 789 737 ;  
C 68 ; WX 722 ; N D ; B 76 0 777 718 ;  
C 69 ; WX 667 ; N E ; B 76 0 757 718 ;  
C 70 ; WX 611 ; N F ; B 76 0 740 718 ;  
C 71 ; WX 778 ; N G ; B 108 -19 817 737 ;  
C 72 ; WX 722 ; N H ; B 71 0 804 718 ;  
C 73 ; WX 278 ; N I ; B 64 0 367 718 ;  
C 74 ; WX 556 ; N J ; B 60 -18 637 718 ;  
C 75 ; WX 722 ; N K ; B 87 0 858 718 ;  
C 76 ; WX 611 ; N L ; B 76 0 611 718 ;  
C 77 ; WX 833 ; N M ; B 69 0 918 718 ;  
C 78 ; WX 722 ; N N ; B 69 0 807 718 ;  
C 79 ; WX 778 ; N O ; B 107 -19 823 737 ;



C 80 ; WX 667 ; N P ; B 76 0 738 718 ;  
C 81 ; WX 778 ; N Q ; B 107 -52 823 737 ;  
C 82 ; WX 722 ; N R ; B 76 0 778 718 ;  
C 83 ; WX 667 ; N S ; B 81 -19 718 737 ;  
C 84 ; WX 611 ; N T ; B 140 0 751 718 ;  
C 85 ; WX 722 ; N U ; B 116 -19 804 718 ;  
C 86 ; WX 667 ; N V ; B 172 0 801 718 ;  
C 87 ; WX 944 ; N W ; B 169 0 1082 718 ;  
C 88 ; WX 667 ; N X ; B 14 0 791 718 ;  
C 89 ; WX 667 ; N Y ; B 168 0 806 718 ;  
C 90 ; WX 611 ; N Z ; B 25 0 737 718 ;  
C 91 ; WX 333 ; N bracketleft ; B 21 -196 462 722 ;  
C 92 ; WX 278 ; N backslash ; B 124 -19 307 737 ;  
C 93 ; WX 333 ; N bracketright ; B -18 -196 423 722 ;  
C 94 ; WX 584 ; N asciicircum ; B 131 323 591 698 ;  
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 165 454 361 727 ;  
C 97 ; WX 556 ; N a ; B 55 -14 583 546 ;  
C 98 ; WX 611 ; N b ; B 61 -14 645 718 ;  
C 99 ; WX 556 ; N c ; B 79 -14 599 546 ;  
C 100 ; WX 611 ; N d ; B 82 -14 704 718 ;  
C 101 ; WX 556 ; N e ; B 70 -14 593 546 ;  
C 102 ; WX 333 ; N f ; B 87 0 469 727 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 38 -217 666 546 ;  
C 104 ; WX 611 ; N h ; B 65 0 629 718 ;  
C 105 ; WX 278 ; N i ; B 69 0 363 725 ;  
C 106 ; WX 278 ; N j ; B -42 -214 363 725 ;  
C 107 ; WX 556 ; N k ; B 69 0 670 718 ;  
C 108 ; WX 278 ; N l ; B 69 0 362 718 ;  
C 109 ; WX 889 ; N m ; B 64 0 909 546 ;  
C 110 ; WX 611 ; N n ; B 65 0 629 546 ;  
C 111 ; WX 611 ; N o ; B 82 -14 643 546 ;  
C 112 ; WX 611 ; N p ; B 18 -207 645 546 ;  
C 113 ; WX 611 ; N q ; B 80 -207 665 546 ;  
C 114 ; WX 389 ; N r ; B 64 0 489 546 ;  
C 115 ; WX 556 ; N s ; B 63 -14 584 546 ;  
C 116 ; WX 333 ; N t ; B 100 -6 422 676 ;  
C 117 ; WX 611 ; N u ; B 98 -14 658 532 ;  
C 118 ; WX 556 ; N v ; B 126 0 656 532 ;  
C 119 ; WX 778 ; N w ; B 123 0 882 532 ;  
C 120 ; WX 556 ; N x ; B 15 0 648 532 ;  
C 121 ; WX 556 ; N y ; B 42 -214 652 532 ;  
C 122 ; WX 500 ; N z ; B 20 0 583 532 ;  
C 123 ; WX 389 ; N braceleft ; B 94 -196 518 722 ;  
C 124 ; WX 280 ; N bar ; B 36 -225 361 775 ;  
C 125 ; WX 389 ; N braceright ; B -18 -196 407 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 115 163 577 343 ;  
C 161 ; WX 333 ; N exclamdown ; B 50 -186 353 532 ;

C 162 ; WX 556 ; N cent ; B 79 -118 599 628 ;  
C 163 ; WX 556 ; N sterling ; B 50 -16 635 718 ;  
C 164 ; WX 167 ; N fraction ; B -174 -19 487 710 ;  
C 165 ; WX 556 ; N yen ; B 60 0 713 698 ;  
C 166 ; WX 556 ; N florin ; B -50 -210 669 737 ;  
C 167 ; WX 556 ; N section ; B 61 -184 598 727 ;  
C 168 ; WX 556 ; N currency ; B 27 76 680 636 ;  
C 169 ; WX 238 ; N quotesingle ; B 165 447 321 718 ;  
C 170 ; WX 500 ; N quotedblleft ; B 160 454 588 727 ;  
C 171 ; WX 556 ; N guillemotleft ; B 135 76 571 484 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 130 76 353 484 ;  
C 173 ; WX 333 ; N guilsinglright ; B 99 76 322 484 ;  
C 174 ; WX 611 ; N fi ; B 87 0 696 727 ;  
C 175 ; WX 611 ; N fl ; B 87 0 695 727 ;  
C 177 ; WX 556 ; N endash ; B 48 227 627 333 ;  
C 178 ; WX 556 ; N dagger ; B 118 -171 626 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 46 -171 628 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 110 172 276 334 ;  
C 182 ; WX 556 ; N paragraph ; B 98 -191 688 700 ;  
C 183 ; WX 350 ; N bullet ; B 83 194 420 524 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 41 -146 236 127 ;  
C 185 ; WX 500 ; N quotedblbase ; B 36 -146 463 127 ;  
C 186 ; WX 500 ; N quotedblright ; B 162 445 589 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 104 76 540 484 ;  
C 188 ; WX 1000 ; N ellipsis ; B 92 0 939 146 ;  
C 189 ; WX 1000 ; N perthousand ; B 76 -19 1038 710 ;  
C 191 ; WX 611 ; N questiondown ; B 53 -195 559 532 ;  
C 193 ; WX 333 ; N grave ; B 136 604 353 750 ;  
C 194 ; WX 333 ; N acute ; B 236 604 515 750 ;  
C 195 ; WX 333 ; N circumflex ; B 118 604 471 750 ;  
C 196 ; WX 333 ; N tilde ; B 113 610 507 737 ;  
C 197 ; WX 333 ; N macron ; B 122 604 483 678 ;  
C 198 ; WX 333 ; N breve ; B 156 604 494 750 ;  
C 199 ; WX 333 ; N dotaccent ; B 235 614 385 729 ;  
C 200 ; WX 333 ; N dieresis ; B 137 614 482 729 ;  
C 202 ; WX 333 ; N ring ; B 200 568 420 776 ;  
C 203 ; WX 333 ; N cedilla ; B -37 -228 220 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 137 604 645 750 ;  
C 206 ; WX 333 ; N ogonek ; B 41 -228 264 0 ;  
C 207 ; WX 333 ; N caron ; B 149 604 502 750 ;  
C 208 ; WX 1000 ; N emdash ; B 48 227 1071 333 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 1100 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 125 401 465 737 ;  
C 232 ; WX 611 ; N Lslash ; B 34 0 611 718 ;  
C 233 ; WX 778 ; N Oslash ; B 35 -27 894 745 ;  
C 234 ; WX 1000 ; N OE ; B 99 -19 1114 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 123 401 485 737 ;  
C 241 ; WX 889 ; N ae ; B 56 -14 923 546 ;

C 245 ; WX 278 ; N dotlessi ; B 69 0 322 532 ;  
C 248 ; WX 278 ; N lslash ; B 40 0 407 718 ;  
C 249 ; WX 611 ; N oslash ; B 22 -29 701 560 ;  
C 250 ; WX 944 ; N oe ; B 82 -14 977 546 ;  
C 251 ; WX 611 ; N germandbls ; B 69 -14 657 731 ;  
C -1 ; WX 278 ; N Idieresis ; B 64 0 494 915 ;  
C -1 ; WX 556 ; N eacute ; B 70 -14 627 750 ;  
C -1 ; WX 556 ; N abreve ; B 55 -14 606 750 ;  
C -1 ; WX 611 ; N uhungarumlaut ; B 98 -14 784 750 ;  
C -1 ; WX 556 ; N ecaron ; B 70 -14 614 750 ;  
C -1 ; WX 667 ; N Ydieresis ; B 168 0 806 915 ;  
C -1 ; WX 584 ; N divide ; B 82 -42 610 548 ;  
C -1 ; WX 667 ; N Yacute ; B 168 0 806 936 ;  
C -1 ; WX 722 ; N Acircumflex ; B 20 0 706 936 ;  
C -1 ; WX 556 ; N aacute ; B 55 -14 627 750 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 116 -19 804 936 ;  
C -1 ; WX 556 ; N yacute ; B 42 -214 652 750 ;  
C -1 ; WX 556 ; N scommaaccent ; B 63 -228 584 546 ;  
C -1 ; WX 556 ; N ecircumflex ; B 70 -14 593 750 ;  
C -1 ; WX 722 ; N Uring ; B 116 -19 804 962 ;  
C -1 ; WX 722 ; N Udieresis ; B 116 -19 804 915 ;  
C -1 ; WX 556 ; N aogonek ; B 55 -224 583 546 ;  
C -1 ; WX 722 ; N Uacute ; B 116 -19 804 936 ;  
C -1 ; WX 611 ; N uogonek ; B 98 -228 658 532 ;  
C -1 ; WX 667 ; N Edieresis ; B 76 0 757 915 ;  
C -1 ; WX 722 ; N Dcroat ; B 62 0 777 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 16 -228 188 -50 ;  
C -1 ; WX 737 ; N copyright ; B 56 -19 835 737 ;  
C -1 ; WX 667 ; N Emacron ; B 76 0 757 864 ;  
C -1 ; WX 556 ; N ccaron ; B 79 -14 614 750 ;  
C -1 ; WX 556 ; N aring ; B 55 -14 583 776 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 69 -228 807 718 ;  
C -1 ; WX 278 ; N lacute ; B 69 0 528 936 ;  
C -1 ; WX 556 ; N agrave ; B 55 -14 583 750 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 140 -228 751 718 ;  
C -1 ; WX 722 ; N Cacute ; B 107 -19 789 936 ;  
C -1 ; WX 556 ; N atilde ; B 55 -14 619 737 ;  
C -1 ; WX 667 ; N Edotaccent ; B 76 0 757 915 ;  
C -1 ; WX 556 ; N scaron ; B 63 -14 614 750 ;  
C -1 ; WX 556 ; N scedilla ; B 63 -228 584 546 ;  
C -1 ; WX 278 ; N iacute ; B 69 0 488 750 ;  
C -1 ; WX 494 ; N lozenge ; B 90 0 564 745 ;  
C -1 ; WX 722 ; N Rcaron ; B 76 0 778 936 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 108 -228 817 737 ;  
C -1 ; WX 611 ; N ucircumflex ; B 98 -14 658 750 ;  
C -1 ; WX 556 ; N acircumflex ; B 55 -14 583 750 ;  
C -1 ; WX 722 ; N Amacron ; B 20 0 718 864 ;  
C -1 ; WX 389 ; N rcaron ; B 64 0 530 750 ;

C -1 ; WX 556 ; N ccedilla ; B 79 -228 599 546 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 25 0 737 915 ;  
C -1 ; WX 667 ; N Thorn ; B 76 0 716 718 ;  
C -1 ; WX 778 ; N Omacron ; B 107 -19 823 864 ;  
C -1 ; WX 722 ; N Racute ; B 76 0 778 936 ;  
C -1 ; WX 667 ; N Sacute ; B 81 -19 722 936 ;  
C -1 ; WX 743 ; N dcaron ; B 82 -14 903 718 ;  
C -1 ; WX 722 ; N Umacron ; B 116 -19 804 864 ;  
C -1 ; WX 611 ; N uring ; B 98 -14 658 776 ;  
C -1 ; WX 333 ; N threesuperior ; B 91 271 441 710 ;  
C -1 ; WX 778 ; N Ograve ; B 107 -19 823 936 ;  
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;  
C -1 ; WX 722 ; N Abreve ; B 20 0 729 936 ;  
C -1 ; WX 584 ; N multiply ; B 57 1 635 505 ;  
C -1 ; WX 611 ; N uacute ; B 98 -14 658 750 ;  
C -1 ; WX 611 ; N Tcaron ; B 140 0 751 936 ;  
C -1 ; WX 494 ; N partialdiff ; B 43 -21 585 750 ;  
C -1 ; WX 556 ; N ydieresis ; B 42 -214 652 729 ;  
C -1 ; WX 722 ; N Nacute ; B 69 0 807 936 ;  
C -1 ; WX 278 ; N icircumflex ; B 69 0 444 750 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 757 936 ;  
C -1 ; WX 556 ; N adieresis ; B 55 -14 594 729 ;  
C -1 ; WX 556 ; N edieresis ; B 70 -14 594 729 ;  
C -1 ; WX 556 ; N cacute ; B 79 -14 627 750 ;  
C -1 ; WX 611 ; N nacute ; B 65 0 654 750 ;  
C -1 ; WX 611 ; N umacron ; B 98 -14 658 678 ;  
C -1 ; WX 722 ; N Ncaron ; B 69 0 807 936 ;  
C -1 ; WX 278 ; N Iacute ; B 64 0 528 936 ;  
C -1 ; WX 584 ; N plusminus ; B 40 0 625 506 ;  
C -1 ; WX 280 ; N brokenbar ; B 52 -150 345 700 ;  
C -1 ; WX 737 ; N registered ; B 55 -19 834 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 108 -19 817 936 ;  
C -1 ; WX 278 ; N Idotaccent ; B 64 0 397 915 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 670 706 ;  
C -1 ; WX 667 ; N Egrave ; B 76 0 757 936 ;  
C -1 ; WX 389 ; N racute ; B 64 0 543 750 ;  
C -1 ; WX 611 ; N omacron ; B 82 -14 643 678 ;  
C -1 ; WX 611 ; N Zacute ; B 25 0 737 936 ;  
C -1 ; WX 611 ; N Zcaron ; B 25 0 737 936 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 629 704 ;  
C -1 ; WX 722 ; N Eth ; B 62 0 777 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 107 -228 789 737 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 30 -228 362 718 ;  
C -1 ; WX 389 ; N tcaron ; B 100 -6 608 878 ;  
C -1 ; WX 556 ; N eogonek ; B 70 -228 593 546 ;  
C -1 ; WX 722 ; N Uogonek ; B 116 -228 804 718 ;  
C -1 ; WX 722 ; N Aacute ; B 20 0 750 936 ;  
C -1 ; WX 722 ; N Adieresis ; B 20 0 716 915 ;

C -1 ; WX 556 ; N egrave ; B 70 -14 593 750 ;  
C -1 ; WX 500 ; N zacute ; B 20 0 599 750 ;  
C -1 ; WX 278 ; N iogonek ; B -14 -224 363 725 ;  
C -1 ; WX 778 ; N Oacute ; B 107 -19 823 936 ;  
C -1 ; WX 611 ; N oacute ; B 82 -14 654 750 ;  
C -1 ; WX 556 ; N amacron ; B 55 -14 595 678 ;  
C -1 ; WX 556 ; N sacute ; B 63 -14 627 750 ;  
C -1 ; WX 278 ; N idieresis ; B 69 0 455 729 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 107 -19 823 936 ;  
C -1 ; WX 722 ; N Ugrave ; B 116 -19 804 936 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 611 ; N thorn ; B 18 -208 645 718 ;  
C -1 ; WX 333 ; N twosuperior ; B 69 283 449 710 ;  
C -1 ; WX 778 ; N Odieresis ; B 107 -19 823 915 ;  
C -1 ; WX 611 ; N mu ; B 22 -207 658 532 ;  
C -1 ; WX 278 ; N igrave ; B 69 0 326 750 ;  
C -1 ; WX 611 ; N ohungarumlaut ; B 82 -14 784 750 ;  
C -1 ; WX 667 ; N Eogonek ; B 76 -224 757 718 ;  
C -1 ; WX 611 ; N dcroat ; B 82 -14 789 718 ;  
C -1 ; WX 834 ; N threequarters ; B 99 -19 839 710 ;  
C -1 ; WX 667 ; N Scedilla ; B 81 -228 718 737 ;  
C -1 ; WX 400 ; N lcaron ; B 69 0 561 718 ;  
C -1 ; WX 722 ; N Kcommaaccent ; B 87 -228 858 718 ;  
C -1 ; WX 611 ; N Lacute ; B 76 0 611 936 ;  
C -1 ; WX 1000 ; N trademark ; B 179 306 1109 718 ;  
C -1 ; WX 556 ; N edotaccent ; B 70 -14 593 729 ;  
C -1 ; WX 278 ; N Igrave ; B 64 0 367 936 ;  
C -1 ; WX 278 ; N Imacron ; B 64 0 496 864 ;  
C -1 ; WX 611 ; N Lcaron ; B 76 0 643 718 ;  
C -1 ; WX 834 ; N onehalf ; B 132 -19 858 710 ;  
C -1 ; WX 549 ; N lessequal ; B 29 0 676 704 ;  
C -1 ; WX 611 ; N ocircumflex ; B 82 -14 643 750 ;  
C -1 ; WX 611 ; N ntilde ; B 65 0 646 737 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 116 -19 880 936 ;  
C -1 ; WX 667 ; N Eacute ; B 76 0 757 936 ;  
C -1 ; WX 556 ; N emacron ; B 70 -14 595 678 ;  
C -1 ; WX 611 ; N gbreve ; B 38 -217 666 750 ;  
C -1 ; WX 834 ; N onequarter ; B 132 -19 806 710 ;  
C -1 ; WX 667 ; N Scaron ; B 81 -19 718 936 ;  
C -1 ; WX 667 ; N Scommaaccent ; B 81 -228 718 737 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 107 -19 908 936 ;  
C -1 ; WX 400 ; N degree ; B 175 426 467 712 ;  
C -1 ; WX 611 ; N ograve ; B 82 -14 643 750 ;  
C -1 ; WX 722 ; N Ccaron ; B 107 -19 789 936 ;  
C -1 ; WX 611 ; N ugrave ; B 98 -14 658 750 ;  
C -1 ; WX 549 ; N radical ; B 112 -46 689 850 ;  
C -1 ; WX 722 ; N Dcaron ; B 76 0 777 936 ;  
C -1 ; WX 389 ; N rcommaaccent ; B 26 -228 489 546 ;

C -1 ; WX 722 ; N Ntilde ; B 69 0 807 923 ;  
C -1 ; WX 611 ; N otilde ; B 82 -14 646 737 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 76 -228 778 718 ;  
C -1 ; WX 611 ; N Lcommaaccent ; B 76 -228 611 718 ;  
C -1 ; WX 722 ; N Atilde ; B 20 0 741 923 ;  
C -1 ; WX 722 ; N Aogonek ; B 20 -224 702 718 ;  
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;  
C -1 ; WX 778 ; N Otilde ; B 107 -19 823 923 ;  
C -1 ; WX 500 ; N zdotaccent ; B 20 0 583 729 ;  
C -1 ; WX 667 ; N Ecaron ; B 76 0 757 936 ;  
C -1 ; WX 278 ; N Iogonek ; B -41 -228 367 718 ;  
C -1 ; WX 556 ; N kcommaaccent ; B 69 -228 670 718 ;  
C -1 ; WX 584 ; N minus ; B 82 197 610 309 ;  
C -1 ; WX 278 ; N Icircumflex ; B 64 0 484 936 ;  
C -1 ; WX 611 ; N ncaron ; B 65 0 641 750 ;  
C -1 ; WX 333 ; N tcommaaccent ; B 58 -228 422 676 ;  
C -1 ; WX 584 ; N logicalnot ; B 105 108 633 419 ;  
C -1 ; WX 611 ; N odieresis ; B 82 -14 643 729 ;  
C -1 ; WX 611 ; N udieresis ; B 98 -14 658 729 ;  
C -1 ; WX 549 ; N notequal ; B 32 -49 630 570 ;  
C -1 ; WX 611 ; N gcommaaccent ; B 38 -217 666 850 ;  
C -1 ; WX 611 ; N eth ; B 82 -14 670 737 ;  
C -1 ; WX 500 ; N zcaron ; B 20 0 586 750 ;  
C -1 ; WX 611 ; N ncommaaccent ; B 65 -228 629 546 ;  
C -1 ; WX 333 ; N onesuperior ; B 148 283 388 710 ;  
C -1 ; WX 278 ; N imacron ; B 69 0 429 678 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2481

KPX A C -40

KPX A Cacute -40

KPX A Ccaron -40

KPX A Ccedilla -40

KPX A G -50

KPX A Gbreve -50

KPX A Gcommaaccent -50

KPX A O -40

KPX A Oacute -40

KPX A Ocircumflex -40

KPX A Odieresis -40

KPX A Ograve -40

KPX A Ohungarumlaut -40

KPX A Omacron -40

KPX A Oslash -40

KPX A Otilde -40

KPX A Q -40

KPX A T -90

KPX A Tcaron -90  
KPX A Tcommaaccent -90  
KPX A U -50  
KPX A Uacute -50  
KPX A Ucircumflex -50  
KPX A Udieresis -50  
KPX A Ugrave -50  
KPX A Uhungarumlaut -50  
KPX A Umacron -50  
KPX A Uogonek -50  
KPX A Uring -50  
KPX A V -80  
KPX A W -60  
KPX A Y -110  
KPX A Yacute -110  
KPX A Ydieresis -110  
KPX A u -30  
KPX A uacute -30  
KPX A ucircumflex -30  
KPX A udieresis -30  
KPX A ugrave -30  
KPX A uhungarumlaut -30  
KPX A umacron -30  
KPX A uogonek -30  
KPX A uring -30  
KPX A v -40  
KPX A w -30  
KPX A y -30  
KPX A yacute -30  
KPX A ydieresis -30  
KPX Aacute C -40  
KPX Aacute Cacute -40  
KPX Aacute Ccaron -40  
KPX Aacute Ccedilla -40  
KPX Aacute G -50  
KPX Aacute Gbreve -50  
KPX Aacute Gcommaaccent -50  
KPX Aacute O -40  
KPX Aacute Oacute -40  
KPX Aacute Ocircumflex -40  
KPX Aacute Odieresis -40  
KPX Aacute Ograve -40  
KPX Aacute Ohungarumlaut -40  
KPX Aacute Omacron -40  
KPX Aacute Oslash -40  
KPX Aacute Otilde -40  
KPX Aacute Q -40  
KPX Aacute T -90

KPX Aacute Tcaron -90  
KPX Aacute Tcommaaccent -90  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50  
KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -80  
KPX Aacute W -60  
KPX Aacute Y -110  
KPX Aacute Yacute -110  
KPX Aacute Ydieresis -110  
KPX Aacute u -30  
KPX Aacute uacute -30  
KPX Aacute ucircumflex -30  
KPX Aacute udieresis -30  
KPX Aacute ugrave -30  
KPX Aacute uhungarumlaut -30  
KPX Aacute umacron -30  
KPX Aacute uogonek -30  
KPX Aacute uring -30  
KPX Aacute v -40  
KPX Aacute w -30  
KPX Aacute y -30  
KPX Aacute yacute -30  
KPX Aacute ydieresis -30  
KPX Abreve C -40  
KPX Abreve Cacute -40  
KPX Abreve Ccaron -40  
KPX Abreve Ccedilla -40  
KPX Abreve G -50  
KPX Abreve Gbreve -50  
KPX Abreve Gcommaaccent -50  
KPX Abreve O -40  
KPX Abreve Oacute -40  
KPX Abreve Ocircumflex -40  
KPX Abreve Odieresis -40  
KPX Abreve Ograve -40  
KPX Abreve Ohungarumlaut -40  
KPX Abreve Omacron -40  
KPX Abreve Oslash -40  
KPX Abreve Otilde -40  
KPX Abreve Q -40  
KPX Abreve T -90



KPX Abreve Tcaron -90  
KPX Abreve Tcommaaccent -90  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50  
KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -80  
KPX Abreve W -60  
KPX Abreve Y -110  
KPX Abreve Yacute -110  
KPX Abreve Ydieresis -110  
KPX Abreve u -30  
KPX Abreve uacute -30  
KPX Abreve ucircumflex -30  
KPX Abreve udieresis -30  
KPX Abreve ugrave -30  
KPX Abreve uhungarumlaut -30  
KPX Abreve umacron -30  
KPX Abreve uogonek -30  
KPX Abreve uring -30  
KPX Abreve v -40  
KPX Abreve w -30  
KPX Abreve y -30  
KPX Abreve yacute -30  
KPX Abreve ydieresis -30  
KPX Acircumflex C -40  
KPX Acircumflex Cacute -40  
KPX Acircumflex Ccaron -40  
KPX Acircumflex Ccedilla -40  
KPX Acircumflex G -50  
KPX Acircumflex Gbreve -50  
KPX Acircumflex Gcommaaccent -50  
KPX Acircumflex O -40  
KPX Acircumflex Oacute -40  
KPX Acircumflex Ocircumflex -40  
KPX Acircumflex Odieresis -40  
KPX Acircumflex Ograve -40  
KPX Acircumflex Ohungarumlaut -40  
KPX Acircumflex Omacron -40  
KPX Acircumflex Oslash -40  
KPX Acircumflex Otilde -40  
KPX Acircumflex Q -40  
KPX Acircumflex T -90

KPX Acircumflex Tcaron -90  
KPX Acircumflex Tcommaaccent -90  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50  
KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50  
KPX Acircumflex V -80  
KPX Acircumflex W -60  
KPX Acircumflex Y -110  
KPX Acircumflex Yacute -110  
KPX Acircumflex Ydieresis -110  
KPX Acircumflex u -30  
KPX Acircumflex uacute -30  
KPX Acircumflex ucircumflex -30  
KPX Acircumflex udieresis -30  
KPX Acircumflex ugrave -30  
KPX Acircumflex uhungarumlaut -30  
KPX Acircumflex umacron -30  
KPX Acircumflex uogonek -30  
KPX Acircumflex uring -30  
KPX Acircumflex v -40  
KPX Acircumflex w -30  
KPX Acircumflex y -30  
KPX Acircumflex yacute -30  
KPX Acircumflex ydieresis -30  
KPX Adieresis C -40  
KPX Adieresis Cacute -40  
KPX Adieresis Ccaron -40  
KPX Adieresis Ccedilla -40  
KPX Adieresis G -50  
KPX Adieresis Gbreve -50  
KPX Adieresis Gcommaaccent -50  
KPX Adieresis O -40  
KPX Adieresis Oacute -40  
KPX Adieresis Ocircumflex -40  
KPX Adieresis Odieresis -40  
KPX Adieresis Ograve -40  
KPX Adieresis Ohungarumlaut -40  
KPX Adieresis Omacron -40  
KPX Adieresis Oslash -40  
KPX Adieresis Otilde -40  
KPX Adieresis Q -40  
KPX Adieresis T -90

KPX Adieresis Tcaron -90  
KPX Adieresis Tcommaaccent -90  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50  
KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50  
KPX Adieresis V -80  
KPX Adieresis W -60  
KPX Adieresis Y -110  
KPX Adieresis Yacute -110  
KPX Adieresis Ydieresis -110  
KPX Adieresis u -30  
KPX Adieresis uacute -30  
KPX Adieresis ucircumflex -30  
KPX Adieresis udieresis -30  
KPX Adieresis ugrave -30  
KPX Adieresis uhungarumlaut -30  
KPX Adieresis umacron -30  
KPX Adieresis uogonek -30  
KPX Adieresis uring -30  
KPX Adieresis v -40  
KPX Adieresis w -30  
KPX Adieresis y -30  
KPX Adieresis yacute -30  
KPX Adieresis ydieresis -30  
KPX Agrave C -40  
KPX Agrave Cacute -40  
KPX Agrave Ccaron -40  
KPX Agrave Ccedilla -40  
KPX Agrave G -50  
KPX Agrave Gbreve -50  
KPX Agrave Gcommaaccent -50  
KPX Agrave O -40  
KPX Agrave Oacute -40  
KPX Agrave Ocircumflex -40  
KPX Agrave Odieresis -40  
KPX Agrave Ograve -40  
KPX Agrave Ohungarumlaut -40  
KPX Agrave Omacron -40  
KPX Agrave Oslash -40  
KPX Agrave Otilde -40  
KPX Agrave Q -40  
KPX Agrave T -90

KPX Agrave Tcaron -90  
KPX Agrave Tcommaaccent -90  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50  
KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50  
KPX Agrave Uogonek -50  
KPX Agrave Uring -50  
KPX Agrave V -80  
KPX Agrave W -60  
KPX Agrave Y -110  
KPX Agrave Yacute -110  
KPX Agrave Ydieresis -110  
KPX Agrave u -30  
KPX Agrave uacute -30  
KPX Agrave ucircumflex -30  
KPX Agrave udieresis -30  
KPX Agrave ugrave -30  
KPX Agrave uhungarumlaut -30  
KPX Agrave umacron -30  
KPX Agrave uogonek -30  
KPX Agrave uring -30  
KPX Agrave v -40  
KPX Agrave w -30  
KPX Agrave y -30  
KPX Agrave yacute -30  
KPX Agrave ydieresis -30  
KPX Amacron C -40  
KPX Amacron Cacute -40  
KPX Amacron Ccaron -40  
KPX Amacron Ccedilla -40  
KPX Amacron G -50  
KPX Amacron Gbreve -50  
KPX Amacron Gcommaaccent -50  
KPX Amacron O -40  
KPX Amacron Oacute -40  
KPX Amacron Ocircumflex -40  
KPX Amacron Odieresis -40  
KPX Amacron Ograve -40  
KPX Amacron Ohungarumlaut -40  
KPX Amacron Omacron -40  
KPX Amacron Oslash -40  
KPX Amacron Otilde -40  
KPX Amacron Q -40  
KPX Amacron T -90

KPX Amacron Tcaron -90  
KPX Amacron Tcommaaccent -90  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50  
KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50  
KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -80  
KPX Amacron W -60  
KPX Amacron Y -110  
KPX Amacron Yacute -110  
KPX Amacron Ydieresis -110  
KPX Amacron u -30  
KPX Amacron uacute -30  
KPX Amacron ucircumflex -30  
KPX Amacron udieresis -30  
KPX Amacron ugrave -30  
KPX Amacron uhungarumlaut -30  
KPX Amacron umacron -30  
KPX Amacron uogonek -30  
KPX Amacron uring -30  
KPX Amacron v -40  
KPX Amacron w -30  
KPX Amacron y -30  
KPX Amacron yacute -30  
KPX Amacron ydieresis -30  
KPX Aogonek C -40  
KPX Aogonek Cacute -40  
KPX Aogonek Ccaron -40  
KPX Aogonek Ccedilla -40  
KPX Aogonek G -50  
KPX Aogonek Gbreve -50  
KPX Aogonek Gcommaaccent -50  
KPX Aogonek O -40  
KPX Aogonek Oacute -40  
KPX Aogonek Ocircumflex -40  
KPX Aogonek Odieresis -40  
KPX Aogonek Ograve -40  
KPX Aogonek Ohungarumlaut -40  
KPX Aogonek Omacron -40  
KPX Aogonek Oslash -40  
KPX Aogonek Otilde -40  
KPX Aogonek Q -40  
KPX Aogonek T -90

KPX Aogonek Tcaron -90  
KPX Aogonek Tcommaaccent -90  
KPX Aogonek U -50  
KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50  
KPX Aogonek Umacron -50  
KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -80  
KPX Aogonek W -60  
KPX Aogonek Y -110  
KPX Aogonek Yacute -110  
KPX Aogonek Ydieresis -110  
KPX Aogonek u -30  
KPX Aogonek uacute -30  
KPX Aogonek ucircumflex -30  
KPX Aogonek udieresis -30  
KPX Aogonek ugrave -30  
KPX Aogonek uhungarumlaut -30  
KPX Aogonek umacron -30  
KPX Aogonek uogonek -30  
KPX Aogonek uring -30  
KPX Aogonek v -40  
KPX Aogonek w -30  
KPX Aogonek y -30  
KPX Aogonek yacute -30  
KPX Aogonek ydieresis -30  
KPX Aring C -40  
KPX Aring Cacute -40  
KPX Aring Ccaron -40  
KPX Aring Ccedilla -40  
KPX Aring G -50  
KPX Aring Gbreve -50  
KPX Aring Gcommaaccent -50  
KPX Aring O -40  
KPX Aring Oacute -40  
KPX Aring Ocircumflex -40  
KPX Aring Odieresis -40  
KPX Aring Ograve -40  
KPX Aring Ohungarumlaut -40  
KPX Aring Omacron -40  
KPX Aring Oslash -40  
KPX Aring Otilde -40  
KPX Aring Q -40  
KPX Aring T -90

KPX Aring Tcaron -90  
KPX Aring Tcommaaccent -90  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50  
KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50  
KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -80  
KPX Aring W -60  
KPX Aring Y -110  
KPX Aring Yacute -110  
KPX Aring Ydieresis -110  
KPX Aring u -30  
KPX Aring uacute -30  
KPX Aring ucircumflex -30  
KPX Aring udieresis -30  
KPX Aring ugrave -30  
KPX Aring uhungarumlaut -30  
KPX Aring umacron -30  
KPX Aring uogonek -30  
KPX Aring uring -30  
KPX Aring v -40  
KPX Aring w -30  
KPX Aring y -30  
KPX Aring yacute -30  
KPX Aring ydieresis -30  
KPX Atilde C -40  
KPX Atilde Cacute -40  
KPX Atilde Ccaron -40  
KPX Atilde Ccedilla -40  
KPX Atilde G -50  
KPX Atilde Gbreve -50  
KPX Atilde Gcommaaccent -50  
KPX Atilde O -40  
KPX Atilde Oacute -40  
KPX Atilde Ocircumflex -40  
KPX Atilde Odieresis -40  
KPX Atilde Ograve -40  
KPX Atilde Ohungarumlaut -40  
KPX Atilde Omacron -40  
KPX Atilde Oslash -40  
KPX Atilde Otilde -40  
KPX Atilde Q -40  
KPX Atilde T -90

KPX Atilde Tcaron -90  
KPX Atilde Tcommaaccent -90  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50  
KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50  
KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -80  
KPX Atilde W -60  
KPX Atilde Y -110  
KPX Atilde Yacute -110  
KPX Atilde Ydieresis -110  
KPX Atilde u -30  
KPX Atilde uacute -30  
KPX Atilde ucircumflex -30  
KPX Atilde udieresis -30  
KPX Atilde ugrave -30  
KPX Atilde uhungarumlaut -30  
KPX Atilde umacron -30  
KPX Atilde uogonek -30  
KPX Atilde uring -30  
KPX Atilde v -40  
KPX Atilde w -30  
KPX Atilde y -30  
KPX Atilde yacute -30  
KPX Atilde ydieresis -30  
KPX B A -30  
KPX B Aacute -30  
KPX B Abreve -30  
KPX B Acircumflex -30  
KPX B Adieresis -30  
KPX B Agrave -30  
KPX B Amacron -30  
KPX B Aogonek -30  
KPX B Aring -30  
KPX B Atilde -30  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10  
KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10



KPX B Uring -10  
KPX D A -40  
KPX D Aacute -40  
KPX D Abreve -40  
KPX D Acircumflex -40  
KPX D Adieresis -40  
KPX D Agrave -40  
KPX D Amacron -40  
KPX D Aogonek -40  
KPX D Aring -40  
KPX D Atilde -40  
KPX D V -40  
KPX D W -40  
KPX D Y -70  
KPX D Yacute -70  
KPX D Ydieresis -70  
KPX D comma -30  
KPX D period -30  
KPX Dcaron A -40  
KPX Dcaron Aacute -40  
KPX Dcaron Abreve -40  
KPX Dcaron Acircumflex -40  
KPX Dcaron Adieresis -40  
KPX Dcaron Agrave -40  
KPX Dcaron Amacron -40  
KPX Dcaron Aogonek -40  
KPX Dcaron Aring -40  
KPX Dcaron Atilde -40  
KPX Dcaron V -40  
KPX Dcaron W -40  
KPX Dcaron Y -70  
KPX Dcaron Yacute -70  
KPX Dcaron Ydieresis -70  
KPX Dcaron comma -30  
KPX Dcaron period -30  
KPX Dcroat A -40  
KPX Dcroat Aacute -40  
KPX Dcroat Abreve -40  
KPX Dcroat Acircumflex -40  
KPX Dcroat Adieresis -40  
KPX Dcroat Agrave -40  
KPX Dcroat Amacron -40  
KPX Dcroat Aogonek -40  
KPX Dcroat Aring -40  
KPX Dcroat Atilde -40  
KPX Dcroat V -40  
KPX Dcroat W -40  
KPX Dcroat Y -70

KPX Dcroat Yacute -70  
KPX Dcroat Ydieresis -70  
KPX Dcroat comma -30  
KPX Dcroat period -30  
KPX F A -80  
KPX F Aacute -80  
KPX F Abreve -80  
KPX F Acircumflex -80  
KPX F Adieresis -80  
KPX F Agrave -80  
KPX F Amacron -80  
KPX F Aogonek -80  
KPX F Aring -80  
KPX F Atilde -80  
KPX F a -20  
KPX F aacute -20  
KPX F abreve -20  
KPX F acircumflex -20  
KPX F adieresis -20  
KPX F agrave -20  
KPX F amacron -20  
KPX F aogonek -20  
KPX F aring -20  
KPX F atilde -20  
KPX F comma -100  
KPX F period -100  
KPX J A -20  
KPX J Aacute -20  
KPX J Abreve -20  
KPX J Acircumflex -20  
KPX J Adieresis -20  
KPX J Agrave -20  
KPX J Amacron -20  
KPX J Aogonek -20  
KPX J Aring -20  
KPX J Atilde -20  
KPX J comma -20  
KPX J period -20  
KPX J u -20  
KPX J uacute -20  
KPX J ucircumflex -20  
KPX J udieresis -20  
KPX J ugrave -20  
KPX J uhungarumlaut -20  
KPX J umacron -20  
KPX J uogonek -20  
KPX J uring -20  
KPX K O -30

KPX K Oacute -30  
KPX K Ocircumflex -30  
KPX K Odieresis -30  
KPX K Ograve -30  
KPX K Ohungarumlaut -30  
KPX K Omacron -30  
KPX K Oslash -30  
KPX K Otilde -30  
KPX K e -15  
KPX K eacute -15  
KPX K ecaron -15  
KPX K ecircumflex -15  
KPX K edieresis -15  
KPX K edotaccent -15  
KPX K egrave -15  
KPX K emacron -15  
KPX K eogonek -15  
KPX K o -35  
KPX K oacute -35  
KPX K ocircumflex -35  
KPX K odieresis -35  
KPX K ograve -35  
KPX K ohungarumlaut -35  
KPX K omacron -35  
KPX K oslash -35  
KPX K otilde -35  
KPX K u -30  
KPX K uacute -30  
KPX K ucircumflex -30  
KPX K udieresis -30  
KPX K ugrave -30  
KPX K uhungarumlaut -30  
KPX K umacron -30  
KPX K uogonek -30  
KPX K uring -30  
KPX K y -40  
KPX K yacute -40  
KPX K ydieresis -40  
KPX Kcommaaccent O -30  
KPX Kcommaaccent Oacute -30  
KPX Kcommaaccent Ocircumflex -30  
KPX Kcommaaccent Odieresis -30  
KPX Kcommaaccent Ograve -30  
KPX Kcommaaccent Ohungarumlaut -30  
KPX Kcommaaccent Omacron -30  
KPX Kcommaaccent Oslash -30  
KPX Kcommaaccent Otilde -30  
KPX Kcommaaccent e -15

KPX Kcommaaccent eacute -15  
KPX Kcommaaccent ecaron -15  
KPX Kcommaaccent ecircumflex -15  
KPX Kcommaaccent edieresis -15  
KPX Kcommaaccent edotaccent -15  
KPX Kcommaaccent egrave -15  
KPX Kcommaaccent emacron -15  
KPX Kcommaaccent eogonek -15  
KPX Kcommaaccent o -35  
KPX Kcommaaccent oacute -35  
KPX Kcommaaccent ocircumflex -35  
KPX Kcommaaccent odieresis -35  
KPX Kcommaaccent ograve -35  
KPX Kcommaaccent ohungarumlaut -35  
KPX Kcommaaccent omacron -35  
KPX Kcommaaccent oslash -35  
KPX Kcommaaccent otilde -35  
KPX Kcommaaccent u -30  
KPX Kcommaaccent uacute -30  
KPX Kcommaaccent ucircumflex -30  
KPX Kcommaaccent udieresis -30  
KPX Kcommaaccent ugrave -30  
KPX Kcommaaccent uhungarumlaut -30  
KPX Kcommaaccent umacron -30  
KPX Kcommaaccent uogonek -30  
KPX Kcommaaccent uring -30  
KPX Kcommaaccent y -40  
KPX Kcommaaccent yacute -40  
KPX Kcommaaccent ydieresis -40  
KPX L T -90  
KPX L Tcaron -90  
KPX L Tcommaaccent -90  
KPX L V -110  
KPX L W -80  
KPX L Y -120  
KPX L Yacute -120  
KPX L Ydieresis -120  
KPX L quotedblright -140  
KPX L quoteright -140  
KPX L y -30  
KPX L yacute -30  
KPX L ydieresis -30  
KPX Lacute T -90  
KPX Lacute Tcaron -90  
KPX Lacute Tcommaaccent -90  
KPX Lacute V -110  
KPX Lacute W -80  
KPX Lacute Y -120

KPX Lacute Yacute -120  
KPX Lacute Ydieresis -120  
KPX Lacute quotedblright -140  
KPX Lacute quoteright -140  
KPX Lacute y -30  
KPX Lacute yacute -30  
KPX Lacute ydieresis -30  
KPX Lcommaaccent T -90  
KPX Lcommaaccent Tcaron -90  
KPX Lcommaaccent Tcommaaccent -90  
KPX Lcommaaccent V -110  
KPX Lcommaaccent W -80  
KPX Lcommaaccent Y -120  
KPX Lcommaaccent Yacute -120  
KPX Lcommaaccent Ydieresis -120  
KPX Lcommaaccent quotedblright -140  
KPX Lcommaaccent quoteright -140  
KPX Lcommaaccent y -30  
KPX Lcommaaccent yacute -30  
KPX Lcommaaccent ydieresis -30  
KPX Lslash T -90  
KPX Lslash Tcaron -90  
KPX Lslash Tcommaaccent -90  
KPX Lslash V -110  
KPX Lslash W -80  
KPX Lslash Y -120  
KPX Lslash Yacute -120  
KPX Lslash Ydieresis -120  
KPX Lslash quotedblright -140  
KPX Lslash quoteright -140  
KPX Lslash y -30  
KPX Lslash yacute -30  
KPX Lslash ydieresis -30  
KPX O A -50  
KPX O Aacute -50  
KPX O Abreve -50  
KPX O Acircumflex -50  
KPX O Adieresis -50  
KPX O Agrave -50  
KPX O Amacron -50  
KPX O Aogonek -50  
KPX O Aring -50  
KPX O Atilde -50  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -50

KPX O X -50  
KPX O Y -70  
KPX O Yacute -70  
KPX O Ydieresis -70  
KPX O comma -40  
KPX O period -40  
KPX Oacute A -50  
KPX Oacute Aacute -50  
KPX Oacute Abreve -50  
KPX Oacute Acircumflex -50  
KPX Oacute Adieresis -50  
KPX Oacute Agrave -50  
KPX Oacute Amacron -50  
KPX Oacute Aogonek -50  
KPX Oacute Aring -50  
KPX Oacute Atilde -50  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -50  
KPX Oacute X -50  
KPX Oacute Y -70  
KPX Oacute Yacute -70  
KPX Oacute Ydieresis -70  
KPX Oacute comma -40  
KPX Oacute period -40  
KPX Ocircumflex A -50  
KPX Ocircumflex Aacute -50  
KPX Ocircumflex Abreve -50  
KPX Ocircumflex Acircumflex -50  
KPX Ocircumflex Adieresis -50  
KPX Ocircumflex Agrave -50  
KPX Ocircumflex Amacron -50  
KPX Ocircumflex Aogonek -50  
KPX Ocircumflex Aring -50  
KPX Ocircumflex Atilde -50  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -50  
KPX Ocircumflex X -50  
KPX Ocircumflex Y -70  
KPX Ocircumflex Yacute -70  
KPX Ocircumflex Ydieresis -70  
KPX Ocircumflex comma -40  
KPX Ocircumflex period -40

KPX Odieresis A -50  
KPX Odieresis Aacute -50  
KPX Odieresis Abreve -50  
KPX Odieresis Acircumflex -50  
KPX Odieresis Adieresis -50  
KPX Odieresis Agrave -50  
KPX Odieresis Amacron -50  
KPX Odieresis Aogonek -50  
KPX Odieresis Aring -50  
KPX Odieresis Atilde -50  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -50  
KPX Odieresis X -50  
KPX Odieresis Y -70  
KPX Odieresis Yacute -70  
KPX Odieresis Ydieresis -70  
KPX Odieresis comma -40  
KPX Odieresis period -40  
KPX Ograve A -50  
KPX Ograve Aacute -50  
KPX Ograve Abreve -50  
KPX Ograve Acircumflex -50  
KPX Ograve Adieresis -50  
KPX Ograve Agrave -50  
KPX Ograve Amacron -50  
KPX Ograve Aogonek -50  
KPX Ograve Aring -50  
KPX Ograve Atilde -50  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -50  
KPX Ograve X -50  
KPX Ograve Y -70  
KPX Ograve Yacute -70  
KPX Ograve Ydieresis -70  
KPX Ograve comma -40  
KPX Ograve period -40  
KPX Ohungarumlaut A -50  
KPX Ohungarumlaut Aacute -50  
KPX Ohungarumlaut Abreve -50  
KPX Ohungarumlaut Acircumflex -50  
KPX Ohungarumlaut Adieresis -50  
KPX Ohungarumlaut Agrave -50

KPX Ohungarumlaut Amacron -50  
KPX Ohungarumlaut Aogonek -50  
KPX Ohungarumlaut Aring -50  
KPX Ohungarumlaut Atilde -50  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -50  
KPX Ohungarumlaut X -50  
KPX Ohungarumlaut Y -70  
KPX Ohungarumlaut Yacute -70  
KPX Ohungarumlaut Ydieresis -70  
KPX Ohungarumlaut comma -40  
KPX Ohungarumlaut period -40  
KPX Omacron A -50  
KPX Omacron Aacute -50  
KPX Omacron Abreve -50  
KPX Omacron Acircumflex -50  
KPX Omacron Adieresis -50  
KPX Omacron Agrave -50  
KPX Omacron Amacron -50  
KPX Omacron Aogonek -50  
KPX Omacron Aring -50  
KPX Omacron Atilde -50  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -50  
KPX Omacron X -50  
KPX Omacron Y -70  
KPX Omacron Yacute -70  
KPX Omacron Ydieresis -70  
KPX Omacron comma -40  
KPX Omacron period -40  
KPX Oslash A -50  
KPX Oslash Aacute -50  
KPX Oslash Abreve -50  
KPX Oslash Acircumflex -50  
KPX Oslash Adieresis -50  
KPX Oslash Agrave -50  
KPX Oslash Amacron -50  
KPX Oslash Aogonek -50  
KPX Oslash Aring -50  
KPX Oslash Atilde -50  
KPX Oslash T -40  
KPX Oslash Tcaron -40



KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -50  
KPX Oslash X -50  
KPX Oslash Y -70  
KPX Oslash Yacute -70  
KPX Oslash Ydieresis -70  
KPX Oslash comma -40  
KPX Oslash period -40  
KPX Otilde A -50  
KPX Otilde Aacute -50  
KPX Otilde Abreve -50  
KPX Otilde Acircumflex -50  
KPX Otilde Adieresis -50  
KPX Otilde Agrave -50  
KPX Otilde Amacron -50  
KPX Otilde Aogonek -50  
KPX Otilde Aring -50  
KPX Otilde Atilde -50  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -50  
KPX Otilde X -50  
KPX Otilde Y -70  
KPX Otilde Yacute -70  
KPX Otilde Ydieresis -70  
KPX Otilde comma -40  
KPX Otilde period -40  
KPX P A -100  
KPX P Aacute -100  
KPX P Abreve -100  
KPX P Acircumflex -100  
KPX P Adieresis -100  
KPX P Agrave -100  
KPX P Amacron -100  
KPX P Aogonek -100  
KPX P Aring -100  
KPX P Atilde -100  
KPX P a -30  
KPX P aacute -30  
KPX P abreve -30  
KPX P acircumflex -30  
KPX P adieresis -30  
KPX P agrave -30  
KPX P amacron -30  
KPX P aogonek -30

KPX P aring -30  
KPX P atilde -30  
KPX P comma -120  
KPX P e -30  
KPX P eacute -30  
KPX P ecaron -30  
KPX P ecircumflex -30  
KPX P edieresis -30  
KPX P edotaccent -30  
KPX P egrave -30  
KPX P emacron -30  
KPX P eogonek -30  
KPX P o -40  
KPX P oacute -40  
KPX P ocircumflex -40  
KPX P odieresis -40  
KPX P ograve -40  
KPX P ohungarumlaut -40  
KPX P omacron -40  
KPX P oslash -40  
KPX P otilde -40  
KPX P period -120  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX Q comma 20  
KPX Q period 20  
KPX R O -20  
KPX R Oacute -20  
KPX R Ocircumflex -20  
KPX R Odieresis -20  
KPX R Ograve -20  
KPX R Ohungarumlaut -20  
KPX R Omacron -20  
KPX R Oslash -20  
KPX R Otilde -20  
KPX R T -20  
KPX R Tcaron -20  
KPX R Tcommaaccent -20  
KPX R U -20  
KPX R Uacute -20  
KPX R Ucircumflex -20

KPX R Udieresis -20  
KPX R Ugrave -20  
KPX R Uhungarumlaut -20  
KPX R Umacron -20  
KPX R Uogonek -20  
KPX R Uring -20  
KPX R V -50  
KPX R W -40  
KPX R Y -50  
KPX R Yacute -50  
KPX R Ydieresis -50  
KPX Racute O -20  
KPX Racute Oacute -20  
KPX Racute Ocircumflex -20  
KPX Racute Odieresis -20  
KPX Racute Ograve -20  
KPX Racute Ohungarumlaut -20  
KPX Racute Omacron -20  
KPX Racute Oslash -20  
KPX Racute Otilde -20  
KPX Racute T -20  
KPX Racute Tcaron -20  
KPX Racute Tcommaaccent -20  
KPX Racute U -20  
KPX Racute Uacute -20  
KPX Racute Ucircumflex -20  
KPX Racute Udieresis -20  
KPX Racute Ugrave -20  
KPX Racute Uhungarumlaut -20  
KPX Racute Umacron -20  
KPX Racute Uogonek -20  
KPX Racute Uring -20  
KPX Racute V -50  
KPX Racute W -40  
KPX Racute Y -50  
KPX Racute Yacute -50  
KPX Racute Ydieresis -50  
KPX Rcaron O -20  
KPX Rcaron Oacute -20  
KPX Rcaron Ocircumflex -20  
KPX Rcaron Odieresis -20  
KPX Rcaron Ograve -20  
KPX Rcaron Ohungarumlaut -20  
KPX Rcaron Omacron -20  
KPX Rcaron Oslash -20  
KPX Rcaron Otilde -20  
KPX Rcaron T -20  
KPX Rcaron Tcaron -20

KPX Rcaron Tcommaaccent -20  
KPX Rcaron U -20  
KPX Rcaron Uacute -20  
KPX Rcaron Ucircumflex -20  
KPX Rcaron Udieresis -20  
KPX Rcaron Ugrave -20  
KPX Rcaron Uhungarumlaut -20  
KPX Rcaron Umacron -20  
KPX Rcaron Uogonek -20  
KPX Rcaron Uring -20  
KPX Rcaron V -50  
KPX Rcaron W -40  
KPX Rcaron Y -50  
KPX Rcaron Yacute -50  
KPX Rcaron Ydieresis -50  
KPX Rcommaaccent O -20  
KPX Rcommaaccent Oacute -20  
KPX Rcommaaccent Ocircumflex -20  
KPX Rcommaaccent Odieresis -20  
KPX Rcommaaccent Ograve -20  
KPX Rcommaaccent Ohungarumlaut -20  
KPX Rcommaaccent Omacron -20  
KPX Rcommaaccent Oslash -20  
KPX Rcommaaccent Otilde -20  
KPX Rcommaaccent T -20  
KPX Rcommaaccent Tcaron -20  
KPX Rcommaaccent Tcommaaccent -20  
KPX Rcommaaccent U -20  
KPX Rcommaaccent Uacute -20  
KPX Rcommaaccent Ucircumflex -20  
KPX Rcommaaccent Udieresis -20  
KPX Rcommaaccent Ugrave -20  
KPX Rcommaaccent Uhungarumlaut -20  
KPX Rcommaaccent Umacron -20  
KPX Rcommaaccent Uogonek -20  
KPX Rcommaaccent Uring -20  
KPX Rcommaaccent V -50  
KPX Rcommaaccent W -40  
KPX Rcommaaccent Y -50  
KPX Rcommaaccent Yacute -50  
KPX Rcommaaccent Ydieresis -50  
KPX T A -90  
KPX T Aacute -90  
KPX T Abreve -90  
KPX T Acircumflex -90  
KPX T Adieresis -90  
KPX T Agrave -90  
KPX T Amacron -90

KPX T Aogonek -90  
KPX T Aring -90  
KPX T Atilde -90  
KPX T O -40  
KPX T Oacute -40  
KPX T Ocircumflex -40  
KPX T Odieresis -40  
KPX T Ograve -40  
KPX T Ohungarumlaut -40  
KPX T Omacron -40  
KPX T Oslash -40  
KPX T Otilde -40  
KPX T a -80  
KPX T aacute -80  
KPX T abreve -80  
KPX T acircumflex -80  
KPX T adieresis -80  
KPX T agrave -80  
KPX T amacron -80  
KPX T aogonek -80  
KPX T aring -80  
KPX T atilde -80  
KPX T colon -40  
KPX T comma -80  
KPX T e -60  
KPX T eacute -60  
KPX T ecaron -60  
KPX T ecircumflex -60  
KPX T edieresis -60  
KPX T edotaccent -60  
KPX T egrave -60  
KPX T emacron -60  
KPX T eogonek -60  
KPX T hyphen -120  
KPX T o -80  
KPX T oacute -80  
KPX T ocircumflex -80  
KPX T odieresis -80  
KPX T ograve -80  
KPX T ohungarumlaut -80  
KPX T omacron -80  
KPX T oslash -80  
KPX T otilde -80  
KPX T period -80  
KPX T r -80  
KPX T racute -80  
KPX T rcommaaccent -80  
KPX T semicolon -40

KPX T u -90  
KPX T uacute -90  
KPX T ucircumflex -90  
KPX T udieresis -90  
KPX T ugrave -90  
KPX T uhungarumlaut -90  
KPX T umacron -90  
KPX T uogonek -90  
KPX T uring -90  
KPX T w -60  
KPX T y -60  
KPX T yacute -60  
KPX T ydieresis -60  
KPX Tcaron A -90  
KPX Tcaron Aacute -90  
KPX Tcaron Abreve -90  
KPX Tcaron Acircumflex -90  
KPX Tcaron Adieresis -90  
KPX Tcaron Agrave -90  
KPX Tcaron Amacron -90  
KPX Tcaron Aogonek -90  
KPX Tcaron Aring -90  
KPX Tcaron Atilde -90  
KPX Tcaron O -40  
KPX Tcaron Oacute -40  
KPX Tcaron Ocircumflex -40  
KPX Tcaron Odieresis -40  
KPX Tcaron Ograve -40  
KPX Tcaron Ohungarumlaut -40  
KPX Tcaron Omacron -40  
KPX Tcaron Oslash -40  
KPX Tcaron Otilde -40  
KPX Tcaron a -80  
KPX Tcaron aacute -80  
KPX Tcaron abreve -80  
KPX Tcaron acircumflex -80  
KPX Tcaron adieresis -80  
KPX Tcaron agrave -80  
KPX Tcaron amacron -80  
KPX Tcaron aogonek -80  
KPX Tcaron aring -80  
KPX Tcaron atilde -80  
KPX Tcaron colon -40  
KPX Tcaron comma -80  
KPX Tcaron e -60  
KPX Tcaron eacute -60  
KPX Tcaron ecaron -60  
KPX Tcaron ecircumflex -60

KPX Tcaron edieresis -60  
KPX Tcaron edotaccent -60  
KPX Tcaron egrave -60  
KPX Tcaron emacron -60  
KPX Tcaron eogonek -60  
KPX Tcaron hyphen -120  
KPX Tcaron o -80  
KPX Tcaron oacute -80  
KPX Tcaron ocircumflex -80  
KPX Tcaron odieresis -80  
KPX Tcaron ograve -80  
KPX Tcaron ohungarumlaut -80  
KPX Tcaron omacron -80  
KPX Tcaron oslash -80  
KPX Tcaron otilde -80  
KPX Tcaron period -80  
KPX Tcaron r -80  
KPX Tcaron racute -80  
KPX Tcaron rcommaaccent -80  
KPX Tcaron semicolon -40  
KPX Tcaron u -90  
KPX Tcaron uacute -90  
KPX Tcaron ucircumflex -90  
KPX Tcaron udieresis -90  
KPX Tcaron ugrave -90  
KPX Tcaron uhungarumlaut -90  
KPX Tcaron umacron -90  
KPX Tcaron uogonek -90  
KPX Tcaron uring -90  
KPX Tcaron w -60  
KPX Tcaron y -60  
KPX Tcaron yacute -60  
KPX Tcaron ydieresis -60  
KPX Tcommaaccent A -90  
KPX Tcommaaccent Aacute -90  
KPX Tcommaaccent Abreve -90  
KPX Tcommaaccent Acircumflex -90  
KPX Tcommaaccent Adieresis -90  
KPX Tcommaaccent Agrave -90  
KPX Tcommaaccent Amacron -90  
KPX Tcommaaccent Aogonek -90  
KPX Tcommaaccent Aring -90  
KPX Tcommaaccent Atilde -90  
KPX Tcommaaccent O -40  
KPX Tcommaaccent Oacute -40  
KPX Tcommaaccent Ocircumflex -40  
KPX Tcommaaccent Odieresis -40  
KPX Tcommaaccent Ograve -40

KPX Tcommaaccent Ohungarumlaut -40  
KPX Tcommaaccent Omacron -40  
KPX Tcommaaccent Oslash -40  
KPX Tcommaaccent Otilde -40  
KPX Tcommaaccent a -80  
KPX Tcommaaccent aacute -80  
KPX Tcommaaccent abreve -80  
KPX Tcommaaccent acircumflex -80  
KPX Tcommaaccent adieresis -80  
KPX Tcommaaccent agrave -80  
KPX Tcommaaccent amacron -80  
KPX Tcommaaccent aogonek -80  
KPX Tcommaaccent aring -80  
KPX Tcommaaccent atilde -80  
KPX Tcommaaccent colon -40  
KPX Tcommaaccent comma -80  
KPX Tcommaaccent e -60  
KPX Tcommaaccent eacute -60  
KPX Tcommaaccent ecaron -60  
KPX Tcommaaccent ecircumflex -60  
KPX Tcommaaccent edieresis -60  
KPX Tcommaaccent edotaccent -60  
KPX Tcommaaccent egrave -60  
KPX Tcommaaccent emacron -60  
KPX Tcommaaccent eogonek -60  
KPX Tcommaaccent hyphen -120  
KPX Tcommaaccent o -80  
KPX Tcommaaccent oacute -80  
KPX Tcommaaccent ocircumflex -80  
KPX Tcommaaccent odieresis -80  
KPX Tcommaaccent ograve -80  
KPX Tcommaaccent ohungarumlaut -80  
KPX Tcommaaccent omacron -80  
KPX Tcommaaccent oslash -80  
KPX Tcommaaccent otilde -80  
KPX Tcommaaccent period -80  
KPX Tcommaaccent r -80  
KPX Tcommaaccent racute -80  
KPX Tcommaaccent rcommaaccent -80  
KPX Tcommaaccent semicolon -40  
KPX Tcommaaccent u -90  
KPX Tcommaaccent uacute -90  
KPX Tcommaaccent ucircumflex -90  
KPX Tcommaaccent udieresis -90  
KPX Tcommaaccent ugrave -90  
KPX Tcommaaccent uhungarumlaut -90  
KPX Tcommaaccent umacron -90  
KPX Tcommaaccent uogonek -90



KPX Tcommaaccent uring -90  
KPX Tcommaaccent w -60  
KPX Tcommaaccent y -60  
KPX Tcommaaccent yacute -60  
KPX Tcommaaccent ydieresis -60  
KPX U A -50  
KPX U Aacute -50  
KPX U Abreve -50  
KPX U Acircumflex -50  
KPX U Adieresis -50  
KPX U Agrave -50  
KPX U Amacron -50  
KPX U Aogonek -50  
KPX U Aring -50  
KPX U Atilde -50  
KPX U comma -30  
KPX U period -30  
KPX Uacute A -50  
KPX Uacute Aacute -50  
KPX Uacute Abreve -50  
KPX Uacute Acircumflex -50  
KPX Uacute Adieresis -50  
KPX Uacute Agrave -50  
KPX Uacute Amacron -50  
KPX Uacute Aogonek -50  
KPX Uacute Aring -50  
KPX Uacute Atilde -50  
KPX Uacute comma -30  
KPX Uacute period -30  
KPX Ucircumflex A -50  
KPX Ucircumflex Aacute -50  
KPX Ucircumflex Abreve -50  
KPX Ucircumflex Acircumflex -50  
KPX Ucircumflex Adieresis -50  
KPX Ucircumflex Agrave -50  
KPX Ucircumflex Amacron -50  
KPX Ucircumflex Aogonek -50  
KPX Ucircumflex Aring -50  
KPX Ucircumflex Atilde -50  
KPX Ucircumflex comma -30  
KPX Ucircumflex period -30  
KPX Udieresis A -50  
KPX Udieresis Aacute -50  
KPX Udieresis Abreve -50  
KPX Udieresis Acircumflex -50  
KPX Udieresis Adieresis -50  
KPX Udieresis Agrave -50  
KPX Udieresis Amacron -50

KPX Udieresis Aogonek -50  
KPX Udieresis Aring -50  
KPX Udieresis Atilde -50  
KPX Udieresis comma -30  
KPX Udieresis period -30  
KPX Ugrave A -50  
KPX Ugrave Aacute -50  
KPX Ugrave Abreve -50  
KPX Ugrave Acircumflex -50  
KPX Ugrave Adieresis -50  
KPX Ugrave Agrave -50  
KPX Ugrave Amacron -50  
KPX Ugrave Aogonek -50  
KPX Ugrave Aring -50  
KPX Ugrave Atilde -50  
KPX Ugrave comma -30  
KPX Ugrave period -30  
KPX Uhungarumlaut A -50  
KPX Uhungarumlaut Aacute -50  
KPX Uhungarumlaut Abreve -50  
KPX Uhungarumlaut Acircumflex -50  
KPX Uhungarumlaut Adieresis -50  
KPX Uhungarumlaut Agrave -50  
KPX Uhungarumlaut Amacron -50  
KPX Uhungarumlaut Aogonek -50  
KPX Uhungarumlaut Aring -50  
KPX Uhungarumlaut Atilde -50  
KPX Uhungarumlaut comma -30  
KPX Uhungarumlaut period -30  
KPX Umacron A -50  
KPX Umacron Aacute -50  
KPX Umacron Abreve -50  
KPX Umacron Acircumflex -50  
KPX Umacron Adieresis -50  
KPX Umacron Agrave -50  
KPX Umacron Amacron -50  
KPX Umacron Aogonek -50  
KPX Umacron Aring -50  
KPX Umacron Atilde -50  
KPX Umacron comma -30  
KPX Umacron period -30  
KPX Uogonek A -50  
KPX Uogonek Aacute -50  
KPX Uogonek Abreve -50  
KPX Uogonek Acircumflex -50  
KPX Uogonek Adieresis -50  
KPX Uogonek Agrave -50  
KPX Uogonek Amacron -50

KPX Uogonek Aogonek -50  
KPX Uogonek Aring -50  
KPX Uogonek Atilde -50  
KPX Uogonek comma -30  
KPX Uogonek period -30  
KPX Uring A -50  
KPX Uring Aacute -50  
KPX Uring Abreve -50  
KPX Uring Acircumflex -50  
KPX Uring Adieresis -50  
KPX Uring Agrave -50  
KPX Uring Amacron -50  
KPX Uring Aogonek -50  
KPX Uring Aring -50  
KPX Uring Atilde -50  
KPX Uring comma -30  
KPX Uring period -30  
KPX V A -80  
KPX V Aacute -80  
KPX V Abreve -80  
KPX V Acircumflex -80  
KPX V Adieresis -80  
KPX V Agrave -80  
KPX V Amacron -80  
KPX V Aogonek -80  
KPX V Aring -80  
KPX V Atilde -80  
KPX V G -50  
KPX V Gbreve -50  
KPX V Gcommaaccent -50  
KPX V O -50  
KPX V Oacute -50  
KPX V Ocircumflex -50  
KPX V Odieresis -50  
KPX V Ograve -50  
KPX V Ohungarumlaut -50  
KPX V Omacron -50  
KPX V Oslash -50  
KPX V Otilde -50  
KPX V a -60  
KPX V aacute -60  
KPX V abreve -60  
KPX V acircumflex -60  
KPX V adieresis -60  
KPX V agrave -60  
KPX V amacron -60  
KPX V aogonek -60  
KPX V aring -60

KPX V atilde -60  
KPX V colon -40  
KPX V comma -120  
KPX V e -50  
KPX V eacute -50  
KPX V ecaron -50  
KPX V ecircumflex -50  
KPX V edieresis -50  
KPX V edotaccent -50  
KPX V egrave -50  
KPX V emacron -50  
KPX V eogonek -50  
KPX V hyphen -80  
KPX V o -90  
KPX V oacute -90  
KPX V ocircumflex -90  
KPX V odieresis -90  
KPX V ograve -90  
KPX V ohungarumlaut -90  
KPX V omacron -90  
KPX V oslash -90  
KPX V otilde -90  
KPX V period -120  
KPX V semicolon -40  
KPX V u -60  
KPX V uacute -60  
KPX V ucircumflex -60  
KPX V udieresis -60  
KPX V ugrave -60  
KPX V uhungarumlaut -60  
KPX V umacron -60  
KPX V uogonek -60  
KPX V uring -60  
KPX W A -60  
KPX W Aacute -60  
KPX W Abreve -60  
KPX W Acircumflex -60  
KPX W Adieresis -60  
KPX W Agrave -60  
KPX W Amacron -60  
KPX W Aogonek -60  
KPX W Aring -60  
KPX W Atilde -60  
KPX W O -20  
KPX W Oacute -20  
KPX W Ocircumflex -20  
KPX W Odieresis -20  
KPX W Ograve -20

KPX W Ohungarumlaut -20  
KPX W Omacron -20  
KPX W Oslash -20  
KPX W Otilde -20  
KPX W a -40  
KPX W aacute -40  
KPX W abreve -40  
KPX W acircumflex -40  
KPX W adieresis -40  
KPX W agrave -40  
KPX W amacron -40  
KPX W aogonek -40  
KPX W aring -40  
KPX W atilde -40  
KPX W colon -10  
KPX W comma -80  
KPX W e -35  
KPX W eacute -35  
KPX W ecaron -35  
KPX W ecircumflex -35  
KPX W edieresis -35  
KPX W edotaccent -35  
KPX W egrave -35  
KPX W emacron -35  
KPX W eogonek -35  
KPX W hyphen -40  
KPX W o -60  
KPX W oacute -60  
KPX W ocircumflex -60  
KPX W odieresis -60  
KPX W ograve -60  
KPX W ohungarumlaut -60  
KPX W omacron -60  
KPX W oslash -60  
KPX W otilde -60  
KPX W period -80  
KPX W semicolon -10  
KPX W u -45  
KPX W uacute -45  
KPX W ucircumflex -45  
KPX W udieresis -45  
KPX W ugrave -45  
KPX W uhungarumlaut -45  
KPX W umacron -45  
KPX W uogonek -45  
KPX W uring -45  
KPX W y -20  
KPX W yacute -20

KPX W ydieresis -20  
KPX Y A -110  
KPX Y Aacute -110  
KPX Y Abreve -110  
KPX Y Acircumflex -110  
KPX Y Adieresis -110  
KPX Y Agrave -110  
KPX Y Amacron -110  
KPX Y Aogonek -110  
KPX Y Aring -110  
KPX Y Atilde -110  
KPX Y O -70  
KPX Y Oacute -70  
KPX Y Ocircumflex -70  
KPX Y Odieresis -70  
KPX Y Ograve -70  
KPX Y Ohungarumlaut -70  
KPX Y Omacron -70  
KPX Y Oslash -70  
KPX Y Otilde -70  
KPX Y a -90  
KPX Y aacute -90  
KPX Y abreve -90  
KPX Y acircumflex -90  
KPX Y adieresis -90  
KPX Y agrave -90  
KPX Y amacron -90  
KPX Y aogonek -90  
KPX Y aring -90  
KPX Y atilde -90  
KPX Y colon -50  
KPX Y comma -100  
KPX Y e -80  
KPX Y eacute -80  
KPX Y ecaron -80  
KPX Y ecircumflex -80  
KPX Y edieresis -80  
KPX Y edotaccent -80  
KPX Y egrave -80  
KPX Y emacron -80  
KPX Y eogonek -80  
KPX Y o -100  
KPX Y oacute -100  
KPX Y ocircumflex -100  
KPX Y odieresis -100  
KPX Y ograve -100  
KPX Y ohungarumlaut -100  
KPX Y omacron -100

KPX Y oslash -100  
KPX Y otilde -100  
KPX Y period -100  
KPX Y semicolon -50  
KPX Y u -100  
KPX Y uacute -100  
KPX Y ucircumflex -100  
KPX Y udieresis -100  
KPX Y ugrave -100  
KPX Y uhungarumlaut -100  
KPX Y umacron -100  
KPX Y uogonek -100  
KPX Y uring -100  
KPX Yacute A -110  
KPX Yacute Aacute -110  
KPX Yacute Abreve -110  
KPX Yacute Acircumflex -110  
KPX Yacute Adieresis -110  
KPX Yacute Agrave -110  
KPX Yacute Amacron -110  
KPX Yacute Aogonek -110  
KPX Yacute Aring -110  
KPX Yacute Atilde -110  
KPX Yacute O -70  
KPX Yacute Oacute -70  
KPX Yacute Ocircumflex -70  
KPX Yacute Odieresis -70  
KPX Yacute Ograve -70  
KPX Yacute Ohungarumlaut -70  
KPX Yacute Omacron -70  
KPX Yacute Oslash -70  
KPX Yacute Otilde -70  
KPX Yacute a -90  
KPX Yacute aacute -90  
KPX Yacute abreve -90  
KPX Yacute acircumflex -90  
KPX Yacute adieresis -90  
KPX Yacute agrave -90  
KPX Yacute amacron -90  
KPX Yacute aogonek -90  
KPX Yacute aring -90  
KPX Yacute atilde -90  
KPX Yacute colon -50  
KPX Yacute comma -100  
KPX Yacute e -80  
KPX Yacute eacute -80  
KPX Yacute ecaron -80  
KPX Yacute ecircumflex -80

KPX Yacute edieresis -80  
KPX Yacute edotaccent -80  
KPX Yacute egrave -80  
KPX Yacute emacron -80  
KPX Yacute eogonek -80  
KPX Yacute o -100  
KPX Yacute oacute -100  
KPX Yacute ocircumflex -100  
KPX Yacute odieresis -100  
KPX Yacute ograve -100  
KPX Yacute ohungarumlaut -100  
KPX Yacute omacron -100  
KPX Yacute oslash -100  
KPX Yacute otilde -100  
KPX Yacute period -100  
KPX Yacute semicolon -50  
KPX Yacute u -100  
KPX Yacute uacute -100  
KPX Yacute ucircumflex -100  
KPX Yacute udieresis -100  
KPX Yacute ugrave -100  
KPX Yacute uhungarumlaut -100  
KPX Yacute umacron -100  
KPX Yacute uogonek -100  
KPX Yacute uring -100  
KPX Ydieresis A -110  
KPX Ydieresis Aacute -110  
KPX Ydieresis Abreve -110  
KPX Ydieresis Acircumflex -110  
KPX Ydieresis Adieresis -110  
KPX Ydieresis Agrave -110  
KPX Ydieresis Amacron -110  
KPX Ydieresis Aogonek -110  
KPX Ydieresis Aring -110  
KPX Ydieresis Atilde -110  
KPX Ydieresis O -70  
KPX Ydieresis Oacute -70  
KPX Ydieresis Ocircumflex -70  
KPX Ydieresis Odieresis -70  
KPX Ydieresis Ograve -70  
KPX Ydieresis Ohungarumlaut -70  
KPX Ydieresis Omacron -70  
KPX Ydieresis Oslash -70  
KPX Ydieresis Otilde -70  
KPX Ydieresis a -90  
KPX Ydieresis aacute -90  
KPX Ydieresis abreve -90  
KPX Ydieresis acircumflex -90



KPX Ydieresis adieresis -90  
KPX Ydieresis agrave -90  
KPX Ydieresis amacron -90  
KPX Ydieresis aogonek -90  
KPX Ydieresis aring -90  
KPX Ydieresis atilde -90  
KPX Ydieresis colon -50  
KPX Ydieresis comma -100  
KPX Ydieresis e -80  
KPX Ydieresis eacute -80  
KPX Ydieresis ecaron -80  
KPX Ydieresis ecircumflex -80  
KPX Ydieresis edieresis -80  
KPX Ydieresis edotaccent -80  
KPX Ydieresis egrave -80  
KPX Ydieresis emacron -80  
KPX Ydieresis eogonek -80  
KPX Ydieresis o -100  
KPX Ydieresis oacute -100  
KPX Ydieresis ocircumflex -100  
KPX Ydieresis odieresis -100  
KPX Ydieresis ograve -100  
KPX Ydieresis ohungarumlaut -100  
KPX Ydieresis omacron -100  
KPX Ydieresis oslash -100  
KPX Ydieresis otilde -100  
KPX Ydieresis period -100  
KPX Ydieresis semicolon -50  
KPX Ydieresis u -100  
KPX Ydieresis uacute -100  
KPX Ydieresis ucircumflex -100  
KPX Ydieresis udieresis -100  
KPX Ydieresis ugrave -100  
KPX Ydieresis uhungarumlaut -100  
KPX Ydieresis umacron -100  
KPX Ydieresis uogonek -100  
KPX Ydieresis uring -100  
KPX a g -10  
KPX a gbreve -10  
KPX a gcommaaccent -10  
KPX a v -15  
KPX a w -15  
KPX a y -20  
KPX a yacute -20  
KPX a ydieresis -20  
KPX aacute g -10  
KPX aacute gbreve -10  
KPX aacute gcommaaccent -10

KPX aacute v -15  
KPX aacute w -15  
KPX aacute y -20  
KPX aacute yacute -20  
KPX aacute ydieresis -20  
KPX abreve g -10  
KPX abreve gbreve -10  
KPX abreve gcommaaccent -10  
KPX abreve v -15  
KPX abreve w -15  
KPX abreve y -20  
KPX abreve yacute -20  
KPX abreve ydieresis -20  
KPX acircumflex g -10  
KPX acircumflex gbreve -10  
KPX acircumflex gcommaaccent -10  
KPX acircumflex v -15  
KPX acircumflex w -15  
KPX acircumflex y -20  
KPX acircumflex yacute -20  
KPX acircumflex ydieresis -20  
KPX adieresis g -10  
KPX adieresis gbreve -10  
KPX adieresis gcommaaccent -10  
KPX adieresis v -15  
KPX adieresis w -15  
KPX adieresis y -20  
KPX adieresis yacute -20  
KPX adieresis ydieresis -20  
KPX agrave g -10  
KPX agrave gbreve -10  
KPX agrave gcommaaccent -10  
KPX agrave v -15  
KPX agrave w -15  
KPX agrave y -20  
KPX agrave yacute -20  
KPX agrave ydieresis -20  
KPX amacron g -10  
KPX amacron gbreve -10  
KPX amacron gcommaaccent -10  
KPX amacron v -15  
KPX amacron w -15  
KPX amacron y -20  
KPX amacron yacute -20  
KPX amacron ydieresis -20  
KPX aogonek g -10  
KPX aogonek gbreve -10  
KPX aogonek gcommaaccent -10

KPX aogonek v -15  
KPX aogonek w -15  
KPX aogonek y -20  
KPX aogonek yacute -20  
KPX aogonek ydieresis -20  
KPX aring g -10  
KPX aring gbreve -10  
KPX aring gcommaaccent -10  
KPX aring v -15  
KPX aring w -15  
KPX aring y -20  
KPX aring yacute -20  
KPX aring ydieresis -20  
KPX atilde g -10  
KPX atilde gbreve -10  
KPX atilde gcommaaccent -10  
KPX atilde v -15  
KPX atilde w -15  
KPX atilde y -20  
KPX atilde yacute -20  
KPX atilde ydieresis -20  
KPX b l -10  
KPX b lacute -10  
KPX b lcommaaccent -10  
KPX b lslash -10  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX b v -20  
KPX b y -20  
KPX b yacute -20  
KPX b ydieresis -20  
KPX c h -10  
KPX c k -20  
KPX c kcommaaccent -20  
KPX c l -20  
KPX c lacute -20  
KPX c lcommaaccent -20  
KPX c lslash -20  
KPX c y -10  
KPX c yacute -10  
KPX c ydieresis -10

KPX cacute h -10  
KPX cacute k -20  
KPX cacute kcommaaccent -20  
KPX cacute l -20  
KPX cacute lacute -20  
KPX cacute lcommaaccent -20  
KPX cacute lslash -20  
KPX cacute y -10  
KPX cacute yacute -10  
KPX cacute ydieresis -10  
KPX ccaron h -10  
KPX ccaron k -20  
KPX ccaron kcommaaccent -20  
KPX ccaron l -20  
KPX ccaron lacute -20  
KPX ccaron lcommaaccent -20  
KPX ccaron lslash -20  
KPX ccaron y -10  
KPX ccaron yacute -10  
KPX ccaron ydieresis -10  
KPX ccedilla h -10  
KPX ccedilla k -20  
KPX ccedilla kcommaaccent -20  
KPX ccedilla l -20  
KPX ccedilla lacute -20  
KPX ccedilla lcommaaccent -20  
KPX ccedilla lslash -20  
KPX ccedilla y -10  
KPX ccedilla yacute -10  
KPX ccedilla ydieresis -10  
KPX colon space -40  
KPX comma quotedblright -120  
KPX comma quoteright -120  
KPX comma space -40  
KPX d d -10  
KPX d dcroat -10  
KPX d v -15  
KPX d w -15  
KPX d y -15  
KPX d yacute -15  
KPX d ydieresis -15  
KPX dcroat d -10  
KPX dcroat dcroat -10  
KPX dcroat v -15  
KPX dcroat w -15  
KPX dcroat y -15  
KPX dcroat yacute -15  
KPX dcroat ydieresis -15

KPX e comma 10  
KPX e period 20  
KPX e v -15  
KPX e w -15  
KPX e x -15  
KPX e y -15  
KPX e yacute -15  
KPX e ydieresis -15  
KPX eacute comma 10  
KPX eacute period 20  
KPX eacute v -15  
KPX eacute w -15  
KPX eacute x -15  
KPX eacute y -15  
KPX eacute yacute -15  
KPX eacute ydieresis -15  
KPX ecaron comma 10  
KPX ecaron period 20  
KPX ecaron v -15  
KPX ecaron w -15  
KPX ecaron x -15  
KPX ecaron y -15  
KPX ecaron yacute -15  
KPX ecaron ydieresis -15  
KPX ecircumflex comma 10  
KPX ecircumflex period 20  
KPX ecircumflex v -15  
KPX ecircumflex w -15  
KPX ecircumflex x -15  
KPX ecircumflex y -15  
KPX ecircumflex yacute -15  
KPX ecircumflex ydieresis -15  
KPX edieresis comma 10  
KPX edieresis period 20  
KPX edieresis v -15  
KPX edieresis w -15  
KPX edieresis x -15  
KPX edieresis y -15  
KPX edieresis yacute -15  
KPX edieresis ydieresis -15  
KPX edotaccent comma 10  
KPX edotaccent period 20  
KPX edotaccent v -15  
KPX edotaccent w -15  
KPX edotaccent x -15  
KPX edotaccent y -15  
KPX edotaccent yacute -15  
KPX edotaccent ydieresis -15

KPX egrave comma 10  
KPX egrave period 20  
KPX egrave v -15  
KPX egrave w -15  
KPX egrave x -15  
KPX egrave y -15  
KPX egrave yacute -15  
KPX egrave ydieresis -15  
KPX emacron comma 10  
KPX emacron period 20  
KPX emacron v -15  
KPX emacron w -15  
KPX emacron x -15  
KPX emacron y -15  
KPX emacron yacute -15  
KPX emacron ydieresis -15  
KPX eogonek comma 10  
KPX eogonek period 20  
KPX eogonek v -15  
KPX eogonek w -15  
KPX eogonek x -15  
KPX eogonek y -15  
KPX eogonek yacute -15  
KPX eogonek ydieresis -15  
KPX f comma -10  
KPX f e -10  
KPX f eacute -10  
KPX f ecaron -10  
KPX f ecircumflex -10  
KPX f edieresis -10  
KPX f edotaccent -10  
KPX f egrave -10  
KPX f emacron -10  
KPX f eogonek -10  
KPX f o -20  
KPX f oacute -20  
KPX f ocircumflex -20  
KPX f odieresis -20  
KPX f ograve -20  
KPX f ohungarumlaut -20  
KPX f omacron -20  
KPX f oslash -20  
KPX f otilde -20  
KPX f period -10  
KPX f quotedblright 30  
KPX f quoteright 30  
KPX g e 10  
KPX g eacute 10

KPX g ecaron 10  
KPX g ecircumflex 10  
KPX g edieresis 10  
KPX g edotaccent 10  
KPX g egrave 10  
KPX g emacron 10  
KPX g eogonek 10  
KPX g g -10  
KPX g gbreve -10  
KPX g gcommaaccent -10  
KPX gbreve e 10  
KPX gbreve eacute 10  
KPX gbreve ecaron 10  
KPX gbreve ecircumflex 10  
KPX gbreve edieresis 10  
KPX gbreve edotaccent 10  
KPX gbreve egrave 10  
KPX gbreve emacron 10  
KPX gbreve eogonek 10  
KPX gbreve g -10  
KPX gbreve gbreve -10  
KPX gbreve gcommaaccent -10  
KPX gcommaaccent e 10  
KPX gcommaaccent eacute 10  
KPX gcommaaccent ecaron 10  
KPX gcommaaccent ecircumflex 10  
KPX gcommaaccent edieresis 10  
KPX gcommaaccent edotaccent 10  
KPX gcommaaccent egrave 10  
KPX gcommaaccent emacron 10  
KPX gcommaaccent eogonek 10  
KPX gcommaaccent g -10  
KPX gcommaaccent gbreve -10  
KPX gcommaaccent gcommaaccent -10  
KPX h y -20  
KPX h yacute -20  
KPX h ydieresis -20  
KPX k o -15  
KPX k oacute -15  
KPX k ocircumflex -15  
KPX k odieresis -15  
KPX k ograve -15  
KPX k ohungarumlaut -15  
KPX k omacron -15  
KPX k oslash -15  
KPX k otilde -15  
KPX kcommaaccent o -15  
KPX kcommaaccent oacute -15

KPX kcommaaccent ocircumflex -15  
KPX kcommaaccent odieresis -15  
KPX kcommaaccent ograve -15  
KPX kcommaaccent ohungarumlaut -15  
KPX kcommaaccent omacron -15  
KPX kcommaaccent oslash -15  
KPX kcommaaccent otilde -15  
KPX l w -15  
KPX l y -15  
KPX l yacute -15  
KPX l ydieresis -15  
KPX lacute w -15  
KPX lacute y -15  
KPX lacute yacute -15  
KPX lacute ydieresis -15  
KPX lcommaaccent w -15  
KPX lcommaaccent y -15  
KPX lcommaaccent yacute -15  
KPX lcommaaccent ydieresis -15  
KPX lslash w -15  
KPX lslash y -15  
KPX lslash yacute -15  
KPX lslash ydieresis -15  
KPX m u -20  
KPX m uacute -20  
KPX m ucircumflex -20  
KPX m udieresis -20  
KPX m ugrave -20  
KPX m uhungarumlaut -20  
KPX m umacron -20  
KPX m uogonek -20  
KPX m uring -20  
KPX m y -30  
KPX m yacute -30  
KPX m ydieresis -30  
KPX n u -10  
KPX n uacute -10  
KPX n ucircumflex -10  
KPX n udieresis -10  
KPX n ugrave -10  
KPX n uhungarumlaut -10  
KPX n umacron -10  
KPX n uogonek -10  
KPX n uring -10  
KPX n v -40  
KPX n y -20  
KPX n yacute -20  
KPX n ydieresis -20



KPX acute u -10  
KPX acute uacute -10  
KPX acute ucircumflex -10  
KPX acute udieresis -10  
KPX acute ugrave -10  
KPX acute uhungarumlaut -10  
KPX acute umacron -10  
KPX acute uogonek -10  
KPX acute uring -10  
KPX acute v -40  
KPX acute y -20  
KPX acute yacute -20  
KPX acute ydieresis -20  
KPX ncaron u -10  
KPX ncaron uacute -10  
KPX ncaron ucircumflex -10  
KPX ncaron udieresis -10  
KPX ncaron ugrave -10  
KPX ncaron uhungarumlaut -10  
KPX ncaron umacron -10  
KPX ncaron uogonek -10  
KPX ncaron uring -10  
KPX ncaron v -40  
KPX ncaron y -20  
KPX ncaron yacute -20  
KPX ncaron ydieresis -20  
KPX ncommaaccent u -10  
KPX ncommaaccent uacute -10  
KPX ncommaaccent ucircumflex -10  
KPX ncommaaccent udieresis -10  
KPX ncommaaccent ugrave -10  
KPX ncommaaccent uhungarumlaut -10  
KPX ncommaaccent umacron -10  
KPX ncommaaccent uogonek -10  
KPX ncommaaccent uring -10  
KPX ncommaaccent v -40  
KPX ncommaaccent y -20  
KPX ncommaaccent yacute -20  
KPX ncommaaccent ydieresis -20  
KPX ntilde u -10  
KPX ntilde uacute -10  
KPX ntilde ucircumflex -10  
KPX ntilde udieresis -10  
KPX ntilde ugrave -10  
KPX ntilde uhungarumlaut -10  
KPX ntilde umacron -10  
KPX ntilde uogonek -10  
KPX ntilde uring -10

KPX ntilde v -40  
KPX ntilde y -20  
KPX ntilde yacute -20  
KPX ntilde ydieresis -20  
KPX o v -20  
KPX o w -15  
KPX o x -30  
KPX o y -20  
KPX o yacute -20  
KPX o ydieresis -20  
KPX oacute v -20  
KPX oacute w -15  
KPX oacute x -30  
KPX oacute y -20  
KPX oacute yacute -20  
KPX oacute ydieresis -20  
KPX ocircumflex v -20  
KPX ocircumflex w -15  
KPX ocircumflex x -30  
KPX ocircumflex y -20  
KPX ocircumflex yacute -20  
KPX ocircumflex ydieresis -20  
KPX odieresis v -20  
KPX odieresis w -15  
KPX odieresis x -30  
KPX odieresis y -20  
KPX odieresis yacute -20  
KPX odieresis ydieresis -20  
KPX ograve v -20  
KPX ograve w -15  
KPX ograve x -30  
KPX ograve y -20  
KPX ograve yacute -20  
KPX ograve ydieresis -20  
KPX ohungarumlaut v -20  
KPX ohungarumlaut w -15  
KPX ohungarumlaut x -30  
KPX ohungarumlaut y -20  
KPX ohungarumlaut yacute -20  
KPX ohungarumlaut ydieresis -20  
KPX omacron v -20  
KPX omacron w -15  
KPX omacron x -30  
KPX omacron y -20  
KPX omacron yacute -20  
KPX omacron ydieresis -20  
KPX oslash v -20  
KPX oslash w -15

KPX oslash x -30  
KPX oslash y -20  
KPX oslash yacute -20  
KPX oslash ydieresis -20  
KPX otilde v -20  
KPX otilde w -15  
KPX otilde x -30  
KPX otilde y -20  
KPX otilde yacute -20  
KPX otilde ydieresis -20  
KPX p y -15  
KPX p yacute -15  
KPX p ydieresis -15  
KPX period quotedblright -120  
KPX period quoteright -120  
KPX period space -40  
KPX quotedblright space -80  
KPX quoteleft quoteleft -46  
KPX quoteright d -80  
KPX quoteright dcroat -80  
KPX quoteright l -20  
KPX quoteright lacute -20  
KPX quoteright lcommaaccent -20  
KPX quoteright lslash -20  
KPX quoteright quoteright -46  
KPX quoteright r -40  
KPX quoteright racute -40  
KPX quoteright rcaron -40  
KPX quoteright rcommaaccent -40  
KPX quoteright s -60  
KPX quoteright sacute -60  
KPX quoteright scaron -60  
KPX quoteright scedilla -60  
KPX quoteright scommaaccent -60  
KPX quoteright space -80  
KPX quoteright v -20  
KPX r c -20  
KPX r cacute -20  
KPX r ccaron -20  
KPX r ccedilla -20  
KPX r comma -60  
KPX r d -20  
KPX r dcroat -20  
KPX r g -15  
KPX r gbreve -15  
KPX r gcommaaccent -15  
KPX r hyphen -20  
KPX r o -20

KPX r oacute -20  
KPX r ocircumflex -20  
KPX r odieresis -20  
KPX r ograve -20  
KPX r ohungarumlaut -20  
KPX r omacron -20  
KPX r oslash -20  
KPX r otilde -20  
KPX r period -60  
KPX r q -20  
KPX r s -15  
KPX r sacute -15  
KPX r scaron -15  
KPX r scedilla -15  
KPX r scommaaccent -15  
KPX r t 20  
KPX r tcommaaccent 20  
KPX r v 10  
KPX r y 10  
KPX r yacute 10  
KPX r ydieresis 10  
KPX racute c -20  
KPX racute cacute -20  
KPX racute ccaron -20  
KPX racute ccedilla -20  
KPX racute comma -60  
KPX racute d -20  
KPX racute dcroat -20  
KPX racute g -15  
KPX racute gbreve -15  
KPX racute gcommaaccent -15  
KPX racute hyphen -20  
KPX racute o -20  
KPX racute oacute -20  
KPX racute ocircumflex -20  
KPX racute odieresis -20  
KPX racute ograve -20  
KPX racute ohungarumlaut -20  
KPX racute omacron -20  
KPX racute oslash -20  
KPX racute otilde -20  
KPX racute period -60  
KPX racute q -20  
KPX racute s -15  
KPX racute sacute -15  
KPX racute scaron -15  
KPX racute scedilla -15  
KPX racute scommaaccent -15

KPX racute t 20  
KPX racute tcommaaccent 20  
KPX racute v 10  
KPX racute y 10  
KPX racute yacute 10  
KPX racute ydieresis 10  
KPX rcaron c -20  
KPX rcaron cacute -20  
KPX rcaron ccaron -20  
KPX rcaron ccedilla -20  
KPX rcaron comma -60  
KPX rcaron d -20  
KPX rcaron dcroat -20  
KPX rcaron g -15  
KPX rcaron gbreve -15  
KPX rcaron gcommaaccent -15  
KPX rcaron hyphen -20  
KPX rcaron o -20  
KPX rcaron oacute -20  
KPX rcaron ocircumflex -20  
KPX rcaron odieresis -20  
KPX rcaron ograve -20  
KPX rcaron ohungarumlaut -20  
KPX rcaron omacron -20  
KPX rcaron oslash -20  
KPX rcaron otilde -20  
KPX rcaron period -60  
KPX rcaron q -20  
KPX rcaron s -15  
KPX rcaron sacute -15  
KPX rcaron scaron -15  
KPX rcaron scedilla -15  
KPX rcaron scommaaccent -15  
KPX rcaron t 20  
KPX rcaron tcommaaccent 20  
KPX rcaron v 10  
KPX rcaron y 10  
KPX rcaron yacute 10  
KPX rcaron ydieresis 10  
KPX rcommaaccent c -20  
KPX rcommaaccent cacute -20  
KPX rcommaaccent ccaron -20  
KPX rcommaaccent ccedilla -20  
KPX rcommaaccent comma -60  
KPX rcommaaccent d -20  
KPX rcommaaccent dcroat -20  
KPX rcommaaccent g -15  
KPX rcommaaccent gbreve -15

KPX rcommaaccent gcommaaccent -15  
KPX rcommaaccent hyphen -20  
KPX rcommaaccent o -20  
KPX rcommaaccent oacute -20  
KPX rcommaaccent ocircumflex -20  
KPX rcommaaccent odieresis -20  
KPX rcommaaccent ograve -20  
KPX rcommaaccent ohungarumlaut -20  
KPX rcommaaccent omacron -20  
KPX rcommaaccent oslash -20  
KPX rcommaaccent otilde -20  
KPX rcommaaccent period -60  
KPX rcommaaccent q -20  
KPX rcommaaccent s -15  
KPX rcommaaccent sacute -15  
KPX rcommaaccent scaron -15  
KPX rcommaaccent scedilla -15  
KPX rcommaaccent scommaaccent -15  
KPX rcommaaccent t 20  
KPX rcommaaccent tcommaaccent 20  
KPX rcommaaccent v 10  
KPX rcommaaccent y 10  
KPX rcommaaccent yacute 10  
KPX rcommaaccent ydieresis 10  
KPX s w -15  
KPX sacute w -15  
KPX scaron w -15  
KPX scedilla w -15  
KPX scommaaccent w -15  
KPX semicolon space -40  
KPX space T -100  
KPX space Tcaron -100  
KPX space Tcommaaccent -100  
KPX space V -80  
KPX space W -80  
KPX space Y -120  
KPX space Yacute -120  
KPX space Ydieresis -120  
KPX space quotedblleft -80  
KPX space quoteleft -60  
KPX v a -20  
KPX v acute -20  
KPX v abreve -20  
KPX v acircumflex -20  
KPX v adieresis -20  
KPX v agrave -20  
KPX v amacron -20  
KPX v aogonek -20

KPX v aring -20  
KPX v atilde -20  
KPX v comma -80  
KPX v o -30  
KPX v oacute -30  
KPX v ocircumflex -30  
KPX v odieresis -30  
KPX v ograve -30  
KPX v ohungarumlaut -30  
KPX v omacron -30  
KPX v oslash -30  
KPX v otilde -30  
KPX v period -80  
KPX w comma -40  
KPX w o -20  
KPX w oacute -20  
KPX w ocircumflex -20  
KPX w odieresis -20  
KPX w ograve -20  
KPX w ohungarumlaut -20  
KPX w omacron -20  
KPX w oslash -20  
KPX w otilde -20  
KPX w period -40  
KPX x e -10  
KPX x eacute -10  
KPX x ecaron -10  
KPX x ecircumflex -10  
KPX x edieresis -10  
KPX x edotaccent -10  
KPX x egrave -10  
KPX x emacron -10  
KPX x eogonek -10  
KPX y a -30  
KPX y aacute -30  
KPX y abreve -30  
KPX y acircumflex -30  
KPX y adieresis -30  
KPX y agrave -30  
KPX y amacron -30  
KPX y aogonek -30  
KPX y aring -30  
KPX y atilde -30  
KPX y comma -80  
KPX y e -10  
KPX y eacute -10  
KPX y ecaron -10  
KPX y ecircumflex -10

KPX y edieresis -10  
KPX y edotaccent -10  
KPX y egrave -10  
KPX y emacron -10  
KPX y eogonek -10  
KPX y o -25  
KPX y oacute -25  
KPX y ocircumflex -25  
KPX y odieresis -25  
KPX y ograve -25  
KPX y ohungarumlaut -25  
KPX y omacron -25  
KPX y oslash -25  
KPX y otilde -25  
KPX y period -80  
KPX yacute a -30  
KPX yacute aacute -30  
KPX yacute abreve -30  
KPX yacute acircumflex -30  
KPX yacute adieresis -30  
KPX yacute agrave -30  
KPX yacute amacron -30  
KPX yacute aogonek -30  
KPX yacute aring -30  
KPX yacute atilde -30  
KPX yacute comma -80  
KPX yacute e -10  
KPX yacute eacute -10  
KPX yacute ecaron -10  
KPX yacute ecircumflex -10  
KPX yacute edieresis -10  
KPX yacute edotaccent -10  
KPX yacute egrave -10  
KPX yacute emacron -10  
KPX yacute eogonek -10  
KPX yacute o -25  
KPX yacute oacute -25  
KPX yacute ocircumflex -25  
KPX yacute odieresis -25  
KPX yacute ograve -25  
KPX yacute ohungarumlaut -25  
KPX yacute omacron -25  
KPX yacute oslash -25  
KPX yacute otilde -25  
KPX yacute period -80  
KPX ydieresis a -30  
KPX ydieresis aacute -30  
KPX ydieresis abreve -30



KPX ydieresis acircumflex -30  
KPX ydieresis adieresis -30  
KPX ydieresis agrave -30  
KPX ydieresis amacron -30  
KPX ydieresis aogonek -30  
KPX ydieresis aring -30  
KPX ydieresis atilde -30  
KPX ydieresis comma -80  
KPX ydieresis e -10  
KPX ydieresis eacute -10  
KPX ydieresis ecaron -10  
KPX ydieresis ecircumflex -10  
KPX ydieresis edieresis -10  
KPX ydieresis edotaccent -10  
KPX ydieresis egrave -10  
KPX ydieresis emacron -10  
KPX ydieresis eogonek -10  
KPX ydieresis o -25  
KPX ydieresis oacute -25  
KPX ydieresis ocircumflex -25  
KPX ydieresis odieresis -25  
KPX ydieresis ograve -25  
KPX ydieresis ohungarumlaut -25  
KPX ydieresis omacron -25  
KPX ydieresis oslash -25  
KPX ydieresis otilde -25  
KPX ydieresis period -80  
KPX z e 10  
KPX z eacute 10  
KPX z ecaron 10  
KPX z ecircumflex 10  
KPX z edieresis 10  
KPX z edotaccent 10  
KPX z egrave 10  
KPX z emacron 10  
KPX z eogonek 10  
KPX zacute e 10  
KPX zacute eacute 10  
KPX zacute ecaron 10  
KPX zacute ecircumflex 10  
KPX zacute edieresis 10  
KPX zacute edotaccent 10  
KPX zacute egrave 10  
KPX zacute emacron 10  
KPX zacute eogonek 10  
KPX zcaron e 10  
KPX zcaron eacute 10  
KPX zcaron ecaron 10

KPX zcaron ecircumflex 10  
KPX zcaron edieresis 10  
KPX zcaron edotaccent 10  
KPX zcaron egrave 10  
KPX zcaron emacron 10  
KPX zcaron eogonek 10  
KPX zdotaccent e 10  
KPX zdotaccent eacute 10  
KPX zdotaccent ecaron 10  
KPX zdotaccent ecircumflex 10  
KPX zdotaccent edieresis 10  
KPX zdotaccent edotaccent 10  
KPX zdotaccent egrave 10  
KPX zdotaccent emacron 10  
KPX zdotaccent eogonek 10  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 4.1  
Comment Copyright (c) 1989, 1990, 1991, 1992, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu May 1 17:37:52 1997  
Comment UniqueID 43051  
Comment VMusage 16248 75829  
FontName Courier-Oblique  
FullName Courier Oblique  
FamilyName Courier  
Weight Medium  
ItalicAngle -12  
IsFixedPitch true  
CharacterSet ExtendedRoman  
FontBBox -27 -250 849 805  
UnderlinePosition -100  
UnderlineThickness 50  
Version 003.000  
Notice Copyright (c) 1989, 1990, 1991, 1992, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.  
EncodingScheme AdobeStandardEncoding  
CapHeight 562  
XHeight 426  
Ascender 629  
Descender -157  
StdHW 51  
StdVW 51  
StartCharMetrics 315  
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 600 ; N exclam ; B 243 -15 464 572 ;  
C 34 ; WX 600 ; N quotedbl ; B 273 328 532 562 ;  
C 35 ; WX 600 ; N numbersign ; B 133 -32 596 639 ;  
C 36 ; WX 600 ; N dollar ; B 108 -126 596 662 ;

C 37 ; WX 600 ; N percent ; B 134 -15 599 622 ;  
C 38 ; WX 600 ; N ampersand ; B 87 -15 580 543 ;  
C 39 ; WX 600 ; N quoteright ; B 283 328 495 562 ;  
C 40 ; WX 600 ; N parenleft ; B 313 -108 572 622 ;  
C 41 ; WX 600 ; N parenright ; B 137 -108 396 622 ;  
C 42 ; WX 600 ; N asterisk ; B 212 257 580 607 ;  
C 43 ; WX 600 ; N plus ; B 129 44 580 470 ;  
C 44 ; WX 600 ; N comma ; B 157 -112 370 122 ;  
C 45 ; WX 600 ; N hyphen ; B 152 231 558 285 ;  
C 46 ; WX 600 ; N period ; B 238 -15 382 109 ;  
C 47 ; WX 600 ; N slash ; B 112 -80 604 629 ;  
C 48 ; WX 600 ; N zero ; B 154 -15 575 622 ;  
C 49 ; WX 600 ; N one ; B 98 0 515 622 ;  
C 50 ; WX 600 ; N two ; B 70 0 568 622 ;  
C 51 ; WX 600 ; N three ; B 82 -15 538 622 ;  
C 52 ; WX 600 ; N four ; B 108 0 541 622 ;  
C 53 ; WX 600 ; N five ; B 99 -15 589 607 ;  
C 54 ; WX 600 ; N six ; B 155 -15 629 622 ;  
C 55 ; WX 600 ; N seven ; B 182 0 612 607 ;  
C 56 ; WX 600 ; N eight ; B 132 -15 588 622 ;  
C 57 ; WX 600 ; N nine ; B 93 -15 574 622 ;  
C 58 ; WX 600 ; N colon ; B 238 -15 441 385 ;  
C 59 ; WX 600 ; N semicolon ; B 157 -112 441 385 ;  
C 60 ; WX 600 ; N less ; B 96 42 610 472 ;  
C 61 ; WX 600 ; N equal ; B 109 138 600 376 ;  
C 62 ; WX 600 ; N greater ; B 85 42 599 472 ;  
C 63 ; WX 600 ; N question ; B 222 -15 583 572 ;  
C 64 ; WX 600 ; N at ; B 127 -15 582 622 ;  
C 65 ; WX 600 ; N A ; B 3 0 607 562 ;  
C 66 ; WX 600 ; N B ; B 43 0 616 562 ;  
C 67 ; WX 600 ; N C ; B 93 -18 655 580 ;  
C 68 ; WX 600 ; N D ; B 43 0 645 562 ;  
C 69 ; WX 600 ; N E ; B 53 0 660 562 ;  
C 70 ; WX 600 ; N F ; B 53 0 660 562 ;  
C 71 ; WX 600 ; N G ; B 83 -18 645 580 ;  
C 72 ; WX 600 ; N H ; B 32 0 687 562 ;  
C 73 ; WX 600 ; N I ; B 96 0 623 562 ;  
C 74 ; WX 600 ; N J ; B 52 -18 685 562 ;  
C 75 ; WX 600 ; N K ; B 38 0 671 562 ;  
C 76 ; WX 600 ; N L ; B 47 0 607 562 ;  
C 77 ; WX 600 ; N M ; B 4 0 715 562 ;  
C 78 ; WX 600 ; N N ; B 7 -13 712 562 ;  
C 79 ; WX 600 ; N O ; B 94 -18 625 580 ;  
C 80 ; WX 600 ; N P ; B 79 0 644 562 ;  
C 81 ; WX 600 ; N Q ; B 95 -138 625 580 ;  
C 82 ; WX 600 ; N R ; B 38 0 598 562 ;  
C 83 ; WX 600 ; N S ; B 76 -20 650 580 ;  
C 84 ; WX 600 ; N T ; B 108 0 665 562 ;

C 85 ; WX 600 ; N U ; B 125 -18 702 562 ;  
C 86 ; WX 600 ; N V ; B 105 -13 723 562 ;  
C 87 ; WX 600 ; N W ; B 106 -13 722 562 ;  
C 88 ; WX 600 ; N X ; B 23 0 675 562 ;  
C 89 ; WX 600 ; N Y ; B 133 0 695 562 ;  
C 90 ; WX 600 ; N Z ; B 86 0 610 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 246 -108 574 622 ;  
C 92 ; WX 600 ; N backslash ; B 249 -80 468 629 ;  
C 93 ; WX 600 ; N bracketright ; B 135 -108 463 622 ;  
C 94 ; WX 600 ; N asciicircum ; B 175 354 587 622 ;  
C 95 ; WX 600 ; N underscore ; B -27 -125 584 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 343 328 457 562 ;  
C 97 ; WX 600 ; N a ; B 76 -15 569 441 ;  
C 98 ; WX 600 ; N b ; B 29 -15 625 629 ;  
C 99 ; WX 600 ; N c ; B 106 -15 608 441 ;  
C 100 ; WX 600 ; N d ; B 85 -15 640 629 ;  
C 101 ; WX 600 ; N e ; B 106 -15 598 441 ;  
C 102 ; WX 600 ; N f ; B 114 0 662 629 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 61 -157 657 441 ;  
C 104 ; WX 600 ; N h ; B 33 0 592 629 ;  
C 105 ; WX 600 ; N i ; B 95 0 515 657 ;  
C 106 ; WX 600 ; N j ; B 52 -157 550 657 ;  
C 107 ; WX 600 ; N k ; B 58 0 633 629 ;  
C 108 ; WX 600 ; N l ; B 95 0 515 629 ;  
C 109 ; WX 600 ; N m ; B -5 0 615 441 ;  
C 110 ; WX 600 ; N n ; B 26 0 585 441 ;  
C 111 ; WX 600 ; N o ; B 102 -15 588 441 ;  
C 112 ; WX 600 ; N p ; B -24 -157 605 441 ;  
C 113 ; WX 600 ; N q ; B 85 -157 682 441 ;  
C 114 ; WX 600 ; N r ; B 60 0 636 441 ;  
C 115 ; WX 600 ; N s ; B 78 -15 584 441 ;  
C 116 ; WX 600 ; N t ; B 167 -15 561 561 ;  
C 117 ; WX 600 ; N u ; B 101 -15 572 426 ;  
C 118 ; WX 600 ; N v ; B 90 -10 681 426 ;  
C 119 ; WX 600 ; N w ; B 76 -10 695 426 ;  
C 120 ; WX 600 ; N x ; B 20 0 655 426 ;  
C 121 ; WX 600 ; N y ; B -4 -157 683 426 ;  
C 122 ; WX 600 ; N z ; B 99 0 593 426 ;  
C 123 ; WX 600 ; N braceleft ; B 233 -108 569 622 ;  
C 124 ; WX 600 ; N bar ; B 222 -250 485 750 ;  
C 125 ; WX 600 ; N braceright ; B 140 -108 477 622 ;  
C 126 ; WX 600 ; N asciitilde ; B 116 197 600 320 ;  
C 161 ; WX 600 ; N exclamdown ; B 225 -157 445 430 ;  
C 162 ; WX 600 ; N cent ; B 151 -49 588 614 ;  
C 163 ; WX 600 ; N sterling ; B 124 -21 621 611 ;  
C 164 ; WX 600 ; N fraction ; B 84 -57 646 665 ;  
C 165 ; WX 600 ; N yen ; B 120 0 693 562 ;  
C 166 ; WX 600 ; N florin ; B -26 -143 671 622 ;

C 167 ; WX 600 ; N section ; B 104 -78 590 580 ;  
C 168 ; WX 600 ; N currency ; B 94 58 628 506 ;  
C 169 ; WX 600 ; N quotesingle ; B 345 328 460 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 262 328 541 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 92 70 652 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 204 70 540 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 170 70 506 446 ;  
C 174 ; WX 600 ; N fi ; B 3 0 619 629 ;  
C 175 ; WX 600 ; N fl ; B 3 0 619 629 ;  
C 177 ; WX 600 ; N endash ; B 124 231 586 285 ;  
C 178 ; WX 600 ; N dagger ; B 217 -78 546 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 163 -78 546 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 275 189 434 327 ;  
C 182 ; WX 600 ; N paragraph ; B 100 -78 630 562 ;  
C 183 ; WX 600 ; N bullet ; B 224 130 485 383 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 185 -134 397 100 ;  
C 185 ; WX 600 ; N quotedblbase ; B 115 -134 478 100 ;  
C 186 ; WX 600 ; N quotedblright ; B 213 328 576 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 58 70 618 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 46 -15 575 111 ;  
C 189 ; WX 600 ; N perthousand ; B 59 -15 627 622 ;  
C 191 ; WX 600 ; N questiondown ; B 105 -157 466 430 ;  
C 193 ; WX 600 ; N grave ; B 294 497 484 672 ;  
C 194 ; WX 600 ; N acute ; B 348 497 612 672 ;  
C 195 ; WX 600 ; N circumflex ; B 229 477 581 654 ;  
C 196 ; WX 600 ; N tilde ; B 212 489 629 606 ;  
C 197 ; WX 600 ; N macron ; B 232 525 600 565 ;  
C 198 ; WX 600 ; N breve ; B 279 501 576 609 ;  
C 199 ; WX 600 ; N dotaccent ; B 373 537 478 640 ;  
C 200 ; WX 600 ; N dieresis ; B 272 537 579 640 ;  
C 202 ; WX 600 ; N ring ; B 332 463 500 627 ;  
C 203 ; WX 600 ; N cedilla ; B 197 -151 344 10 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 239 497 683 672 ;  
C 206 ; WX 600 ; N ogonek ; B 189 -172 377 4 ;  
C 207 ; WX 600 ; N caron ; B 262 492 614 669 ;  
C 208 ; WX 600 ; N emdash ; B 49 231 661 285 ;  
C 225 ; WX 600 ; N AE ; B 3 0 655 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 209 249 512 580 ;  
C 232 ; WX 600 ; N Lslash ; B 47 0 607 562 ;  
C 233 ; WX 600 ; N Oslash ; B 94 -80 625 629 ;  
C 234 ; WX 600 ; N OE ; B 59 0 672 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 210 249 535 580 ;  
C 241 ; WX 600 ; N ae ; B 41 -15 626 441 ;  
C 245 ; WX 600 ; N dotlessi ; B 95 0 515 426 ;  
C 248 ; WX 600 ; N lslash ; B 95 0 587 629 ;  
C 249 ; WX 600 ; N oslash ; B 102 -80 588 506 ;  
C 250 ; WX 600 ; N oe ; B 54 -15 615 441 ;  
C 251 ; WX 600 ; N germandbls ; B 48 -15 617 629 ;

C -1 ; WX 600 ; N Idieresis ; B 96 0 623 753 ;  
C -1 ; WX 600 ; N eacute ; B 106 -15 612 672 ;  
C -1 ; WX 600 ; N abreve ; B 76 -15 576 609 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B 101 -15 723 672 ;  
C -1 ; WX 600 ; N ecaron ; B 106 -15 614 669 ;  
C -1 ; WX 600 ; N Ydieresis ; B 133 0 695 753 ;  
C -1 ; WX 600 ; N divide ; B 136 48 573 467 ;  
C -1 ; WX 600 ; N Yacute ; B 133 0 695 805 ;  
C -1 ; WX 600 ; N Acircumflex ; B 3 0 607 787 ;  
C -1 ; WX 600 ; N aacute ; B 76 -15 612 672 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 125 -18 702 787 ;  
C -1 ; WX 600 ; N yacute ; B -4 -157 683 672 ;  
C -1 ; WX 600 ; N scommaaccent ; B 78 -250 584 441 ;  
C -1 ; WX 600 ; N ecircumflex ; B 106 -15 598 654 ;  
C -1 ; WX 600 ; N Uring ; B 125 -18 702 760 ;  
C -1 ; WX 600 ; N Udieresis ; B 125 -18 702 753 ;  
C -1 ; WX 600 ; N aogonek ; B 76 -172 569 441 ;  
C -1 ; WX 600 ; N Uacute ; B 125 -18 702 805 ;  
C -1 ; WX 600 ; N uogonek ; B 101 -172 572 426 ;  
C -1 ; WX 600 ; N Edieresis ; B 53 0 660 753 ;  
C -1 ; WX 600 ; N Dcroat ; B 43 0 645 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 145 -250 323 -58 ;  
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N Emacron ; B 53 0 660 698 ;  
C -1 ; WX 600 ; N ccaron ; B 106 -15 614 669 ;  
C -1 ; WX 600 ; N aring ; B 76 -15 569 627 ;  
C -1 ; WX 600 ; N Ncommaaccent ; B 7 -250 712 562 ;  
C -1 ; WX 600 ; N lacute ; B 95 0 640 805 ;  
C -1 ; WX 600 ; N agrave ; B 76 -15 569 672 ;  
C -1 ; WX 600 ; N Tcommaaccent ; B 108 -250 665 562 ;  
C -1 ; WX 600 ; N Cacute ; B 93 -18 655 805 ;  
C -1 ; WX 600 ; N atilde ; B 76 -15 629 606 ;  
C -1 ; WX 600 ; N Edotaccent ; B 53 0 660 753 ;  
C -1 ; WX 600 ; N scaron ; B 78 -15 614 669 ;  
C -1 ; WX 600 ; N scedilla ; B 78 -151 584 441 ;  
C -1 ; WX 600 ; N iacute ; B 95 0 612 672 ;  
C -1 ; WX 600 ; N lozenge ; B 94 0 519 706 ;  
C -1 ; WX 600 ; N Rcaron ; B 38 0 642 802 ;  
C -1 ; WX 600 ; N Gcommaaccent ; B 83 -250 645 580 ;  
C -1 ; WX 600 ; N ucircumflex ; B 101 -15 572 654 ;  
C -1 ; WX 600 ; N acircumflex ; B 76 -15 581 654 ;  
C -1 ; WX 600 ; N Amacron ; B 3 0 607 698 ;  
C -1 ; WX 600 ; N rcaron ; B 60 0 636 669 ;  
C -1 ; WX 600 ; N ccedilla ; B 106 -151 614 441 ;  
C -1 ; WX 600 ; N Zdotaccent ; B 86 0 610 753 ;  
C -1 ; WX 600 ; N Thorn ; B 79 0 606 562 ;  
C -1 ; WX 600 ; N Omacron ; B 94 -18 628 698 ;  
C -1 ; WX 600 ; N Racute ; B 38 0 670 805 ;

C -1 ; WX 600 ; N Sacute ; B 76 -20 650 805 ;  
C -1 ; WX 600 ; N dcaron ; B 85 -15 849 629 ;  
C -1 ; WX 600 ; N Umacron ; B 125 -18 702 698 ;  
C -1 ; WX 600 ; N uring ; B 101 -15 572 627 ;  
C -1 ; WX 600 ; N threesuperior ; B 213 240 501 622 ;  
C -1 ; WX 600 ; N Ograve ; B 94 -18 625 805 ;  
C -1 ; WX 600 ; N Agrave ; B 3 0 607 805 ;  
C -1 ; WX 600 ; N Abreve ; B 3 0 607 732 ;  
C -1 ; WX 600 ; N multiply ; B 103 43 607 470 ;  
C -1 ; WX 600 ; N uacute ; B 101 -15 602 672 ;  
C -1 ; WX 600 ; N Tcaron ; B 108 0 665 802 ;  
C -1 ; WX 600 ; N partialdiff ; B 45 -38 546 710 ;  
C -1 ; WX 600 ; N ydieresis ; B -4 -157 683 620 ;  
C -1 ; WX 600 ; N Nacute ; B 7 -13 712 805 ;  
C -1 ; WX 600 ; N icircumflex ; B 95 0 551 654 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 53 0 660 787 ;  
C -1 ; WX 600 ; N adieresis ; B 76 -15 575 620 ;  
C -1 ; WX 600 ; N edieresis ; B 106 -15 598 620 ;  
C -1 ; WX 600 ; N cacute ; B 106 -15 612 672 ;  
C -1 ; WX 600 ; N nacute ; B 26 0 602 672 ;  
C -1 ; WX 600 ; N umacron ; B 101 -15 600 565 ;  
C -1 ; WX 600 ; N Ncaron ; B 7 -13 712 802 ;  
C -1 ; WX 600 ; N Iacute ; B 96 0 640 805 ;  
C -1 ; WX 600 ; N plusminus ; B 96 44 594 558 ;  
C -1 ; WX 600 ; N brokenbar ; B 238 -175 469 675 ;  
C -1 ; WX 600 ; N registered ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N Gbreve ; B 83 -18 645 732 ;  
C -1 ; WX 600 ; N Idotaccent ; B 96 0 623 753 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 670 706 ;  
C -1 ; WX 600 ; N Egrave ; B 53 0 660 805 ;  
C -1 ; WX 600 ; N racute ; B 60 0 636 672 ;  
C -1 ; WX 600 ; N omacron ; B 102 -15 600 565 ;  
C -1 ; WX 600 ; N Zacute ; B 86 0 670 805 ;  
C -1 ; WX 600 ; N Zcaron ; B 86 0 642 802 ;  
C -1 ; WX 600 ; N greaterequal ; B 98 0 594 710 ;  
C -1 ; WX 600 ; N Eth ; B 43 0 645 562 ;  
C -1 ; WX 600 ; N Ccedilla ; B 93 -151 658 580 ;  
C -1 ; WX 600 ; N lcommaaccent ; B 95 -250 515 629 ;  
C -1 ; WX 600 ; N tcaron ; B 167 -15 587 717 ;  
C -1 ; WX 600 ; N eogonek ; B 106 -172 598 441 ;  
C -1 ; WX 600 ; N Uogonek ; B 124 -172 702 562 ;  
C -1 ; WX 600 ; N Aacute ; B 3 0 660 805 ;  
C -1 ; WX 600 ; N Adieresis ; B 3 0 607 753 ;  
C -1 ; WX 600 ; N egrave ; B 106 -15 598 672 ;  
C -1 ; WX 600 ; N zacute ; B 99 0 612 672 ;  
C -1 ; WX 600 ; N iogonek ; B 95 -172 515 657 ;  
C -1 ; WX 600 ; N Oacute ; B 94 -18 640 805 ;  
C -1 ; WX 600 ; N oacute ; B 102 -15 612 672 ;

C -1 ; WX 600 ; N amacron ; B 76 -15 600 565 ;  
C -1 ; WX 600 ; N sacute ; B 78 -15 612 672 ;  
C -1 ; WX 600 ; N idieresis ; B 95 0 545 620 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 94 -18 625 787 ;  
C -1 ; WX 600 ; N Ugrave ; B 125 -18 702 805 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 598 688 ;  
C -1 ; WX 600 ; N thorn ; B -24 -157 605 629 ;  
C -1 ; WX 600 ; N twosuperior ; B 230 249 535 622 ;  
C -1 ; WX 600 ; N Odieresis ; B 94 -18 625 753 ;  
C -1 ; WX 600 ; N mu ; B 72 -157 572 426 ;  
C -1 ; WX 600 ; N igrave ; B 95 0 515 672 ;  
C -1 ; WX 600 ; N ohungarumlaut ; B 102 -15 723 672 ;  
C -1 ; WX 600 ; N Eogonek ; B 53 -172 660 562 ;  
C -1 ; WX 600 ; N dcroat ; B 85 -15 704 629 ;  
C -1 ; WX 600 ; N threequarters ; B 73 -56 659 666 ;  
C -1 ; WX 600 ; N Scedilla ; B 76 -151 650 580 ;  
C -1 ; WX 600 ; N lcaron ; B 95 0 667 629 ;  
C -1 ; WX 600 ; N Kcommaaccent ; B 38 -250 671 562 ;  
C -1 ; WX 600 ; N Lacute ; B 47 0 607 805 ;  
C -1 ; WX 600 ; N trademark ; B 75 263 742 562 ;  
C -1 ; WX 600 ; N edotaccent ; B 106 -15 598 620 ;  
C -1 ; WX 600 ; N Igrave ; B 96 0 623 805 ;  
C -1 ; WX 600 ; N Imacron ; B 96 0 628 698 ;  
C -1 ; WX 600 ; N Lcaron ; B 47 0 632 562 ;  
C -1 ; WX 600 ; N onehalf ; B 65 -57 669 665 ;  
C -1 ; WX 600 ; N lessequal ; B 98 0 645 710 ;  
C -1 ; WX 600 ; N ocircumflex ; B 102 -15 588 654 ;  
C -1 ; WX 600 ; N ntilde ; B 26 0 629 606 ;  
C -1 ; WX 600 ; N Uhungarumlaut ; B 125 -18 761 805 ;  
C -1 ; WX 600 ; N Eacute ; B 53 0 670 805 ;  
C -1 ; WX 600 ; N emacron ; B 106 -15 600 565 ;  
C -1 ; WX 600 ; N gbreve ; B 61 -157 657 609 ;  
C -1 ; WX 600 ; N onequarter ; B 65 -57 674 665 ;  
C -1 ; WX 600 ; N Scaron ; B 76 -20 672 802 ;  
C -1 ; WX 600 ; N Scommaaccent ; B 76 -250 650 580 ;  
C -1 ; WX 600 ; N Ohungarumlaut ; B 94 -18 751 805 ;  
C -1 ; WX 600 ; N degree ; B 214 269 576 622 ;  
C -1 ; WX 600 ; N ograve ; B 102 -15 588 672 ;  
C -1 ; WX 600 ; N Ccaron ; B 93 -18 672 802 ;  
C -1 ; WX 600 ; N ugrave ; B 101 -15 572 672 ;  
C -1 ; WX 600 ; N radical ; B 85 -15 765 792 ;  
C -1 ; WX 600 ; N Dcaron ; B 43 0 645 802 ;  
C -1 ; WX 600 ; N rcommaaccent ; B 60 -250 636 441 ;  
C -1 ; WX 600 ; N Ntilde ; B 7 -13 712 729 ;  
C -1 ; WX 600 ; N otilde ; B 102 -15 629 606 ;  
C -1 ; WX 600 ; N Rcommaaccent ; B 38 -250 598 562 ;  
C -1 ; WX 600 ; N Lcommaaccent ; B 47 -250 607 562 ;  
C -1 ; WX 600 ; N Atilde ; B 3 0 655 729 ;



C -1 ; WX 600 ; N Aogonek ; B 3 -172 607 562 ;  
C -1 ; WX 600 ; N Aring ; B 3 0 607 750 ;  
C -1 ; WX 600 ; N Otilde ; B 94 -18 655 729 ;  
C -1 ; WX 600 ; N zdotaccent ; B 99 0 593 620 ;  
C -1 ; WX 600 ; N Ecaron ; B 53 0 660 802 ;  
C -1 ; WX 600 ; N Iogonek ; B 96 -172 623 562 ;  
C -1 ; WX 600 ; N kcommaaccent ; B 58 -250 633 629 ;  
C -1 ; WX 600 ; N minus ; B 129 232 580 283 ;  
C -1 ; WX 600 ; N Icircumflex ; B 96 0 623 787 ;  
C -1 ; WX 600 ; N ncaron ; B 26 0 614 669 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 165 -250 561 561 ;  
C -1 ; WX 600 ; N logicalnot ; B 155 108 591 369 ;  
C -1 ; WX 600 ; N odieresis ; B 102 -15 588 620 ;  
C -1 ; WX 600 ; N udieresis ; B 101 -15 575 620 ;  
C -1 ; WX 600 ; N notequal ; B 43 -16 621 529 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 61 -157 657 708 ;  
C -1 ; WX 600 ; N eth ; B 102 -15 639 629 ;  
C -1 ; WX 600 ; N zcaron ; B 99 0 624 669 ;  
C -1 ; WX 600 ; N ncommaaccent ; B 26 -250 585 441 ;  
C -1 ; WX 600 ; N onesuperior ; B 231 249 491 622 ;  
C -1 ; WX 600 ; N imacron ; B 95 0 543 565 ;  
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:44:31 1997

Comment UniqueID 43055

Comment VMusage 14960 69346

FontName Helvetica-Oblique

FullName Helvetica Oblique

FamilyName Helvetica

Weight Medium

ItalicAngle -12

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -170 -225 1116 931

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype-Hell AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StdHW 76

StdVW 88

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 278 ; N exclam ; B 90 0 340 718 ;  
C 34 ; WX 355 ; N quotedbl ; B 168 463 438 718 ;  
C 35 ; WX 556 ; N numbersign ; B 73 0 631 688 ;  
C 36 ; WX 556 ; N dollar ; B 69 -115 617 775 ;  
C 37 ; WX 889 ; N percent ; B 147 -19 889 703 ;  
C 38 ; WX 667 ; N ampersand ; B 77 -15 647 718 ;  
C 39 ; WX 222 ; N quoteright ; B 151 463 310 718 ;  
C 40 ; WX 333 ; N parenleft ; B 108 -207 454 733 ;  
C 41 ; WX 333 ; N parenright ; B -9 -207 337 733 ;  
C 42 ; WX 389 ; N asterisk ; B 165 431 475 718 ;  
C 43 ; WX 584 ; N plus ; B 85 0 606 505 ;  
C 44 ; WX 278 ; N comma ; B 56 -147 214 106 ;  
C 45 ; WX 333 ; N hyphen ; B 93 232 357 322 ;  
C 46 ; WX 278 ; N period ; B 87 0 214 106 ;  
C 47 ; WX 278 ; N slash ; B -21 -19 452 737 ;  
C 48 ; WX 556 ; N zero ; B 93 -19 608 703 ;  
C 49 ; WX 556 ; N one ; B 207 0 508 703 ;  
C 50 ; WX 556 ; N two ; B 26 0 617 703 ;  
C 51 ; WX 556 ; N three ; B 75 -19 610 703 ;  
C 52 ; WX 556 ; N four ; B 61 0 576 703 ;  
C 53 ; WX 556 ; N five ; B 68 -19 621 688 ;  
C 54 ; WX 556 ; N six ; B 91 -19 615 703 ;  
C 55 ; WX 556 ; N seven ; B 137 0 669 688 ;  
C 56 ; WX 556 ; N eight ; B 74 -19 607 703 ;  
C 57 ; WX 556 ; N nine ; B 82 -19 609 703 ;  
C 58 ; WX 278 ; N colon ; B 87 0 301 516 ;  
C 59 ; WX 278 ; N semicolon ; B 56 -147 301 516 ;  
C 60 ; WX 584 ; N less ; B 94 11 641 495 ;  
C 61 ; WX 584 ; N equal ; B 63 115 628 390 ;  
C 62 ; WX 584 ; N greater ; B 50 11 597 495 ;  
C 63 ; WX 556 ; N question ; B 161 0 610 727 ;  
C 64 ; WX 1015 ; N at ; B 215 -19 965 737 ;  
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;  
C 66 ; WX 667 ; N B ; B 74 0 712 718 ;  
C 67 ; WX 722 ; N C ; B 108 -19 782 737 ;  
C 68 ; WX 722 ; N D ; B 81 0 764 718 ;  
C 69 ; WX 667 ; N E ; B 86 0 762 718 ;  
C 70 ; WX 611 ; N F ; B 86 0 736 718 ;  
C 71 ; WX 778 ; N G ; B 111 -19 799 737 ;  
C 72 ; WX 722 ; N H ; B 77 0 799 718 ;  
C 73 ; WX 278 ; N I ; B 91 0 341 718 ;  
C 74 ; WX 500 ; N J ; B 47 -19 581 718 ;  
C 75 ; WX 667 ; N K ; B 76 0 808 718 ;  
C 76 ; WX 556 ; N L ; B 76 0 555 718 ;  
C 77 ; WX 833 ; N M ; B 73 0 914 718 ;

C 78 ; WX 722 ; N N ; B 76 0 799 718 ;  
C 79 ; WX 778 ; N O ; B 105 -19 826 737 ;  
C 80 ; WX 667 ; N P ; B 86 0 737 718 ;  
C 81 ; WX 778 ; N Q ; B 105 -56 826 737 ;  
C 82 ; WX 722 ; N R ; B 88 0 773 718 ;  
C 83 ; WX 667 ; N S ; B 90 -19 713 737 ;  
C 84 ; WX 611 ; N T ; B 148 0 750 718 ;  
C 85 ; WX 722 ; N U ; B 123 -19 797 718 ;  
C 86 ; WX 667 ; N V ; B 173 0 800 718 ;  
C 87 ; WX 944 ; N W ; B 169 0 1081 718 ;  
C 88 ; WX 667 ; N X ; B 19 0 790 718 ;  
C 89 ; WX 667 ; N Y ; B 167 0 806 718 ;  
C 90 ; WX 611 ; N Z ; B 23 0 741 718 ;  
C 91 ; WX 278 ; N bracketleft ; B 21 -196 403 722 ;  
C 92 ; WX 278 ; N backslash ; B 140 -19 291 737 ;  
C 93 ; WX 278 ; N bracketright ; B -14 -196 368 722 ;  
C 94 ; WX 469 ; N asciicircum ; B 42 264 539 688 ;  
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;  
C 96 ; WX 222 ; N quoteleft ; B 165 470 323 725 ;  
C 97 ; WX 556 ; N a ; B 61 -15 559 538 ;  
C 98 ; WX 556 ; N b ; B 58 -15 584 718 ;  
C 99 ; WX 500 ; N c ; B 74 -15 553 538 ;  
C 100 ; WX 556 ; N d ; B 84 -15 652 718 ;  
C 101 ; WX 556 ; N e ; B 84 -15 578 538 ;  
C 102 ; WX 278 ; N f ; B 86 0 416 728 ; L i fi ; L l fl ;  
C 103 ; WX 556 ; N g ; B 42 -220 610 538 ;  
C 104 ; WX 556 ; N h ; B 65 0 573 718 ;  
C 105 ; WX 222 ; N i ; B 67 0 308 718 ;  
C 106 ; WX 222 ; N j ; B -60 -210 308 718 ;  
C 107 ; WX 500 ; N k ; B 67 0 600 718 ;  
C 108 ; WX 222 ; N l ; B 67 0 308 718 ;  
C 109 ; WX 833 ; N m ; B 65 0 852 538 ;  
C 110 ; WX 556 ; N n ; B 65 0 573 538 ;  
C 111 ; WX 556 ; N o ; B 83 -14 585 538 ;  
C 112 ; WX 556 ; N p ; B 14 -207 584 538 ;  
C 113 ; WX 556 ; N q ; B 84 -207 605 538 ;  
C 114 ; WX 333 ; N r ; B 77 0 446 538 ;  
C 115 ; WX 500 ; N s ; B 63 -15 529 538 ;  
C 116 ; WX 278 ; N t ; B 102 -7 368 669 ;  
C 117 ; WX 556 ; N u ; B 94 -15 600 523 ;  
C 118 ; WX 500 ; N v ; B 119 0 603 523 ;  
C 119 ; WX 722 ; N w ; B 125 0 820 523 ;  
C 120 ; WX 500 ; N x ; B 11 0 594 523 ;  
C 121 ; WX 500 ; N y ; B 15 -214 600 523 ;  
C 122 ; WX 500 ; N z ; B 31 0 571 523 ;  
C 123 ; WX 334 ; N braceleft ; B 92 -196 445 722 ;  
C 124 ; WX 260 ; N bar ; B 46 -225 332 775 ;  
C 125 ; WX 334 ; N braceright ; B 0 -196 354 722 ;

C 126 ; WX 584 ; N asciitilde ; B 111 180 580 326 ;  
C 161 ; WX 333 ; N exclamdown ; B 77 -195 326 523 ;  
C 162 ; WX 556 ; N cent ; B 95 -115 584 623 ;  
C 163 ; WX 556 ; N sterling ; B 49 -16 634 718 ;  
C 164 ; WX 167 ; N fraction ; B -170 -19 482 703 ;  
C 165 ; WX 556 ; N yen ; B 81 0 699 688 ;  
C 166 ; WX 556 ; N florin ; B -52 -207 654 737 ;  
C 167 ; WX 556 ; N section ; B 76 -191 584 737 ;  
C 168 ; WX 556 ; N currency ; B 60 99 646 603 ;  
C 169 ; WX 191 ; N quotesingle ; B 157 463 285 718 ;  
C 170 ; WX 333 ; N quotedblleft ; B 138 470 461 725 ;  
C 171 ; WX 556 ; N guillemotleft ; B 146 108 554 446 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 137 108 340 446 ;  
C 173 ; WX 333 ; N guilsinglright ; B 111 108 314 446 ;  
C 174 ; WX 500 ; N fi ; B 86 0 587 728 ;  
C 175 ; WX 500 ; N fl ; B 86 0 585 728 ;  
C 177 ; WX 556 ; N endash ; B 51 240 623 313 ;  
C 178 ; WX 556 ; N dagger ; B 135 -159 622 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 52 -159 623 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 129 190 257 315 ;  
C 182 ; WX 537 ; N paragraph ; B 126 -173 650 718 ;  
C 183 ; WX 350 ; N bullet ; B 91 202 413 517 ;  
C 184 ; WX 222 ; N quotesinglbase ; B 21 -149 180 106 ;  
C 185 ; WX 333 ; N quotedblbase ; B -6 -149 318 106 ;  
C 186 ; WX 333 ; N quotedblright ; B 124 463 448 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 120 108 528 446 ;  
C 188 ; WX 1000 ; N ellipsis ; B 115 0 908 106 ;  
C 189 ; WX 1000 ; N perthousand ; B 88 -19 1029 703 ;  
C 191 ; WX 611 ; N questiondown ; B 85 -201 534 525 ;  
C 193 ; WX 333 ; N grave ; B 170 593 337 734 ;  
C 194 ; WX 333 ; N acute ; B 248 593 475 734 ;  
C 195 ; WX 333 ; N circumflex ; B 147 593 438 734 ;  
C 196 ; WX 333 ; N tilde ; B 125 606 490 722 ;  
C 197 ; WX 333 ; N macron ; B 143 627 468 684 ;  
C 198 ; WX 333 ; N breve ; B 167 595 476 731 ;  
C 199 ; WX 333 ; N dotaccent ; B 249 604 362 706 ;  
C 200 ; WX 333 ; N dieresis ; B 168 604 443 706 ;  
C 202 ; WX 333 ; N ring ; B 214 572 402 756 ;  
C 203 ; WX 333 ; N cedilla ; B 2 -225 232 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 157 593 565 734 ;  
C 206 ; WX 333 ; N ogonek ; B 43 -225 249 0 ;  
C 207 ; WX 333 ; N caron ; B 177 593 468 734 ;  
C 208 ; WX 1000 ; N emdash ; B 51 240 1067 313 ;  
C 225 ; WX 1000 ; N AE ; B 8 0 1097 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 127 405 449 737 ;  
C 232 ; WX 556 ; N Lslash ; B 41 0 555 718 ;  
C 233 ; WX 778 ; N Oslash ; B 43 -19 890 737 ;  
C 234 ; WX 1000 ; N OE ; B 98 -19 1116 737 ;

C 235 ; WX 365 ; N ordmasculine ; B 141 405 468 737 ;  
C 241 ; WX 889 ; N ae ; B 61 -15 909 538 ;  
C 245 ; WX 278 ; N dotlessi ; B 95 0 294 523 ;  
C 248 ; WX 222 ; N lslash ; B 41 0 347 718 ;  
C 249 ; WX 611 ; N oslash ; B 29 -22 647 545 ;  
C 250 ; WX 944 ; N oe ; B 83 -15 964 538 ;  
C 251 ; WX 611 ; N germandbls ; B 67 -15 658 728 ;  
C -1 ; WX 278 ; N Idieresis ; B 91 0 458 901 ;  
C -1 ; WX 556 ; N eacute ; B 84 -15 587 734 ;  
C -1 ; WX 556 ; N abreve ; B 61 -15 578 731 ;  
C -1 ; WX 556 ; N uhungarumlaut ; B 94 -15 677 734 ;  
C -1 ; WX 556 ; N ecaron ; B 84 -15 580 734 ;  
C -1 ; WX 667 ; N Ydieresis ; B 167 0 806 901 ;  
C -1 ; WX 584 ; N divide ; B 85 -19 606 524 ;  
C -1 ; WX 667 ; N Yacute ; B 167 0 806 929 ;  
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;  
C -1 ; WX 556 ; N aacute ; B 61 -15 587 734 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 123 -19 797 929 ;  
C -1 ; WX 500 ; N yacute ; B 15 -214 600 734 ;  
C -1 ; WX 500 ; N scommaaccent ; B 63 -225 529 538 ;  
C -1 ; WX 556 ; N ecircumflex ; B 84 -15 578 734 ;  
C -1 ; WX 722 ; N Uring ; B 123 -19 797 931 ;  
C -1 ; WX 722 ; N Udieresis ; B 123 -19 797 901 ;  
C -1 ; WX 556 ; N aogonek ; B 61 -220 559 538 ;  
C -1 ; WX 722 ; N Uacute ; B 123 -19 797 929 ;  
C -1 ; WX 556 ; N uogonek ; B 94 -225 600 523 ;  
C -1 ; WX 667 ; N Edieresis ; B 86 0 762 901 ;  
C -1 ; WX 722 ; N Dcroat ; B 69 0 764 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 39 -225 172 -40 ;  
C -1 ; WX 737 ; N copyright ; B 54 -19 837 737 ;  
C -1 ; WX 667 ; N Emacron ; B 86 0 762 879 ;  
C -1 ; WX 500 ; N ccaron ; B 74 -15 553 734 ;  
C -1 ; WX 556 ; N aring ; B 61 -15 559 756 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 76 -225 799 718 ;  
C -1 ; WX 222 ; N lacute ; B 67 0 461 929 ;  
C -1 ; WX 556 ; N agrave ; B 61 -15 559 734 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 148 -225 750 718 ;  
C -1 ; WX 722 ; N Cacute ; B 108 -19 782 929 ;  
C -1 ; WX 556 ; N atilde ; B 61 -15 592 722 ;  
C -1 ; WX 667 ; N Edotaccent ; B 86 0 762 901 ;  
C -1 ; WX 500 ; N scaron ; B 63 -15 552 734 ;  
C -1 ; WX 500 ; N scedilla ; B 63 -225 529 538 ;  
C -1 ; WX 278 ; N iacute ; B 95 0 448 734 ;  
C -1 ; WX 471 ; N lozenge ; B 88 0 540 728 ;  
C -1 ; WX 722 ; N Rcaron ; B 88 0 773 929 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 111 -225 799 737 ;  
C -1 ; WX 556 ; N ucircumflex ; B 94 -15 600 734 ;  
C -1 ; WX 556 ; N acircumflex ; B 61 -15 559 734 ;

C -1 ; WX 667 ; N Amacron ; B 14 0 677 879 ;  
C -1 ; WX 333 ; N rcaron ; B 77 0 508 734 ;  
C -1 ; WX 500 ; N ccedilla ; B 74 -225 553 538 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 23 0 741 901 ;  
C -1 ; WX 667 ; N Thorn ; B 86 0 712 718 ;  
C -1 ; WX 778 ; N Omacron ; B 105 -19 826 879 ;  
C -1 ; WX 722 ; N Racute ; B 88 0 773 929 ;  
C -1 ; WX 667 ; N Sacute ; B 90 -19 713 929 ;  
C -1 ; WX 643 ; N dcaron ; B 84 -15 808 718 ;  
C -1 ; WX 722 ; N Umacron ; B 123 -19 797 879 ;  
C -1 ; WX 556 ; N uring ; B 94 -15 600 756 ;  
C -1 ; WX 333 ; N threesuperior ; B 90 270 436 703 ;  
C -1 ; WX 778 ; N Ograve ; B 105 -19 826 929 ;  
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;  
C -1 ; WX 667 ; N Abreve ; B 14 0 685 926 ;  
C -1 ; WX 584 ; N multiply ; B 50 0 642 506 ;  
C -1 ; WX 556 ; N uacute ; B 94 -15 600 734 ;  
C -1 ; WX 611 ; N Tcaron ; B 148 0 750 929 ;  
C -1 ; WX 476 ; N partialdiff ; B 41 -38 550 714 ;  
C -1 ; WX 500 ; N ydieresis ; B 15 -214 600 706 ;  
C -1 ; WX 722 ; N Nacute ; B 76 0 799 929 ;  
C -1 ; WX 278 ; N icircumflex ; B 95 0 411 734 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 762 929 ;  
C -1 ; WX 556 ; N adieresis ; B 61 -15 559 706 ;  
C -1 ; WX 556 ; N edieresis ; B 84 -15 578 706 ;  
C -1 ; WX 500 ; N cacute ; B 74 -15 559 734 ;  
C -1 ; WX 556 ; N nacute ; B 65 0 587 734 ;  
C -1 ; WX 556 ; N umacron ; B 94 -15 600 684 ;  
C -1 ; WX 722 ; N Ncaron ; B 76 0 799 929 ;  
C -1 ; WX 278 ; N Iacute ; B 91 0 489 929 ;  
C -1 ; WX 584 ; N plusminus ; B 39 0 618 506 ;  
C -1 ; WX 260 ; N brokenbar ; B 62 -150 316 700 ;  
C -1 ; WX 737 ; N registered ; B 54 -19 837 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 111 -19 799 926 ;  
C -1 ; WX 278 ; N Idotaccent ; B 91 0 377 901 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 671 706 ;  
C -1 ; WX 667 ; N Egrave ; B 86 0 762 929 ;  
C -1 ; WX 333 ; N racute ; B 77 0 475 734 ;  
C -1 ; WX 556 ; N omacron ; B 83 -14 585 684 ;  
C -1 ; WX 611 ; N Zacute ; B 23 0 741 929 ;  
C -1 ; WX 611 ; N Zcaron ; B 23 0 741 929 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 620 674 ;  
C -1 ; WX 722 ; N Eth ; B 69 0 764 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 108 -225 782 737 ;  
C -1 ; WX 222 ; N lcommaaccent ; B 25 -225 308 718 ;  
C -1 ; WX 317 ; N tcaron ; B 102 -7 501 808 ;  
C -1 ; WX 556 ; N eogonek ; B 84 -225 578 538 ;  
C -1 ; WX 722 ; N Uogonek ; B 123 -225 797 718 ;

C -1 ; WX 667 ; N Aacute ; B 14 0 683 929 ;  
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;  
C -1 ; WX 556 ; N egrave ; B 84 -15 578 734 ;  
C -1 ; WX 500 ; N zacute ; B 31 0 571 734 ;  
C -1 ; WX 222 ; N iogonek ; B -61 -225 308 718 ;  
C -1 ; WX 778 ; N Oacute ; B 105 -19 826 929 ;  
C -1 ; WX 556 ; N oacute ; B 83 -14 587 734 ;  
C -1 ; WX 556 ; N amacron ; B 61 -15 580 684 ;  
C -1 ; WX 500 ; N sacute ; B 63 -15 559 734 ;  
C -1 ; WX 278 ; N idieresis ; B 95 0 416 706 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 105 -19 826 929 ;  
C -1 ; WX 722 ; N Ugrave ; B 123 -19 797 929 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 556 ; N thorn ; B 14 -207 584 718 ;  
C -1 ; WX 333 ; N twosuperior ; B 64 281 449 703 ;  
C -1 ; WX 778 ; N Odieresis ; B 105 -19 826 901 ;  
C -1 ; WX 556 ; N mu ; B 24 -207 600 523 ;  
C -1 ; WX 278 ; N igrave ; B 95 0 310 734 ;  
C -1 ; WX 556 ; N ohungarumlaut ; B 83 -14 677 734 ;  
C -1 ; WX 667 ; N Eogonek ; B 86 -220 762 718 ;  
C -1 ; WX 556 ; N dcroat ; B 84 -15 689 718 ;  
C -1 ; WX 834 ; N threequarters ; B 130 -19 861 703 ;  
C -1 ; WX 667 ; N Scedilla ; B 90 -225 713 737 ;  
C -1 ; WX 299 ; N lcaron ; B 67 0 464 718 ;  
C -1 ; WX 667 ; N Kcommaaccent ; B 76 -225 808 718 ;  
C -1 ; WX 556 ; N Lacute ; B 76 0 555 929 ;  
C -1 ; WX 1000 ; N trademark ; B 186 306 1056 718 ;  
C -1 ; WX 556 ; N edotaccent ; B 84 -15 578 706 ;  
C -1 ; WX 278 ; N Igrave ; B 91 0 351 929 ;  
C -1 ; WX 278 ; N Imacron ; B 91 0 483 879 ;  
C -1 ; WX 556 ; N Lcaron ; B 76 0 570 718 ;  
C -1 ; WX 834 ; N onehalf ; B 114 -19 839 703 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 666 674 ;  
C -1 ; WX 556 ; N ocircumflex ; B 83 -14 585 734 ;  
C -1 ; WX 556 ; N ntilde ; B 65 0 592 722 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 123 -19 801 929 ;  
C -1 ; WX 667 ; N Eacute ; B 86 0 762 929 ;  
C -1 ; WX 556 ; N emacron ; B 84 -15 580 684 ;  
C -1 ; WX 556 ; N gbreve ; B 42 -220 610 731 ;  
C -1 ; WX 834 ; N onequarter ; B 150 -19 802 703 ;  
C -1 ; WX 667 ; N Scaron ; B 90 -19 713 929 ;  
C -1 ; WX 667 ; N Scommaaccent ; B 90 -225 713 737 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 105 -19 829 929 ;  
C -1 ; WX 400 ; N degree ; B 169 411 468 703 ;  
C -1 ; WX 556 ; N ograve ; B 83 -14 585 734 ;  
C -1 ; WX 722 ; N Ccaron ; B 108 -19 782 929 ;  
C -1 ; WX 556 ; N ugrave ; B 94 -15 600 734 ;  
C -1 ; WX 453 ; N radical ; B 79 -80 617 762 ;

C -1 ; WX 722 ; N Dcaron ; B 81 0 764 929 ;  
C -1 ; WX 333 ; N rcommaaccent ; B 30 -225 446 538 ;  
C -1 ; WX 722 ; N Ntilde ; B 76 0 799 917 ;  
C -1 ; WX 556 ; N otilde ; B 83 -14 602 722 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 773 718 ;  
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 555 718 ;  
C -1 ; WX 667 ; N Atilde ; B 14 0 699 917 ;  
C -1 ; WX 667 ; N Aogonek ; B 14 -225 654 718 ;  
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;  
C -1 ; WX 778 ; N Otilde ; B 105 -19 826 917 ;  
C -1 ; WX 500 ; N zdotaccent ; B 31 0 571 706 ;  
C -1 ; WX 667 ; N Ecaron ; B 86 0 762 929 ;  
C -1 ; WX 278 ; N Iogonek ; B -33 -225 341 718 ;  
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 600 718 ;  
C -1 ; WX 584 ; N minus ; B 85 216 606 289 ;  
C -1 ; WX 278 ; N Icircumflex ; B 91 0 452 929 ;  
C -1 ; WX 556 ; N ncaron ; B 65 0 580 734 ;  
C -1 ; WX 278 ; N tcommaaccent ; B 63 -225 368 669 ;  
C -1 ; WX 584 ; N logicalnot ; B 106 108 628 390 ;  
C -1 ; WX 556 ; N odieresis ; B 83 -14 585 706 ;  
C -1 ; WX 556 ; N udieresis ; B 94 -15 600 706 ;  
C -1 ; WX 549 ; N notequal ; B 34 -35 623 551 ;  
C -1 ; WX 556 ; N gcommaaccent ; B 42 -220 610 822 ;  
C -1 ; WX 556 ; N eth ; B 81 -15 617 737 ;  
C -1 ; WX 500 ; N zcaron ; B 31 0 571 734 ;  
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 573 538 ;  
C -1 ; WX 333 ; N onesuperior ; B 166 281 371 703 ;  
C -1 ; WX 278 ; N imacron ; B 95 0 417 684 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

KPX A C -30

KPX A Cacute -30

KPX A Ccaron -30

KPX A Ccedilla -30

KPX A G -30

KPX A Gbreve -30

KPX A Gcommaaccent -30

KPX A O -30

KPX A Oacute -30

KPX A Ocircumflex -30

KPX A Odieresis -30

KPX A Ograve -30

KPX A Ohungarumlaut -30

KPX A Omacron -30

KPX A Oslash -30

KPX A Otilde -30



KPX A Q -30  
KPX A T -120  
KPX A Tcaron -120  
KPX A Tcommaaccent -120  
KPX A U -50  
KPX A Uacute -50  
KPX A Ucircumflex -50  
KPX A Udieresis -50  
KPX A Ugrave -50  
KPX A Uhungarumlaut -50  
KPX A Umacron -50  
KPX A Uogonek -50  
KPX A Uring -50  
KPX A V -70  
KPX A W -50  
KPX A Y -100  
KPX A Yacute -100  
KPX A Ydieresis -100  
KPX A u -30  
KPX A uacute -30  
KPX A ucircumflex -30  
KPX A udieresis -30  
KPX A ugrave -30  
KPX A uhungarumlaut -30  
KPX A umacron -30  
KPX A uogonek -30  
KPX A uring -30  
KPX A v -40  
KPX A w -40  
KPX A y -40  
KPX A yacute -40  
KPX A ydieresis -40  
KPX Aacute C -30  
KPX Aacute Cacute -30  
KPX Aacute Ccaron -30  
KPX Aacute Ccedilla -30  
KPX Aacute G -30  
KPX Aacute Gbreve -30  
KPX Aacute Gcommaaccent -30  
KPX Aacute O -30  
KPX Aacute Oacute -30  
KPX Aacute Ocircumflex -30  
KPX Aacute Odieresis -30  
KPX Aacute Ograve -30  
KPX Aacute Ohungarumlaut -30  
KPX Aacute Omacron -30  
KPX Aacute Oslash -30  
KPX Aacute Otilde -30

KPX Aacute Q -30  
KPX Aacute T -120  
KPX Aacute Tcaron -120  
KPX Aacute Tcommaaccent -120  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50  
KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -70  
KPX Aacute W -50  
KPX Aacute Y -100  
KPX Aacute Yacute -100  
KPX Aacute Ydieresis -100  
KPX Aacute u -30  
KPX Aacute uacute -30  
KPX Aacute ucircumflex -30  
KPX Aacute udieresis -30  
KPX Aacute ugrave -30  
KPX Aacute uhungarumlaut -30  
KPX Aacute umacron -30  
KPX Aacute uogonek -30  
KPX Aacute uring -30  
KPX Aacute v -40  
KPX Aacute w -40  
KPX Aacute y -40  
KPX Aacute yacute -40  
KPX Aacute ydieresis -40  
KPX Abreve C -30  
KPX Abreve Cacute -30  
KPX Abreve Ccaron -30  
KPX Abreve Ccedilla -30  
KPX Abreve G -30  
KPX Abreve Gbreve -30  
KPX Abreve Gcommaaccent -30  
KPX Abreve O -30  
KPX Abreve Oacute -30  
KPX Abreve Ocircumflex -30  
KPX Abreve Odieresis -30  
KPX Abreve Ograve -30  
KPX Abreve Ohungarumlaut -30  
KPX Abreve Omacron -30  
KPX Abreve Oslash -30  
KPX Abreve Otilde -30

KPX Abreve Q -30  
KPX Abreve T -120  
KPX Abreve Tcaron -120  
KPX Abreve Tcommaaccent -120  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50  
KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -70  
KPX Abreve W -50  
KPX Abreve Y -100  
KPX Abreve Yacute -100  
KPX Abreve Ydieresis -100  
KPX Abreve u -30  
KPX Abreve uacute -30  
KPX Abreve ucircumflex -30  
KPX Abreve udieresis -30  
KPX Abreve ugrave -30  
KPX Abreve uhungarumlaut -30  
KPX Abreve umacron -30  
KPX Abreve uogonek -30  
KPX Abreve uring -30  
KPX Abreve v -40  
KPX Abreve w -40  
KPX Abreve y -40  
KPX Abreve yacute -40  
KPX Abreve ydieresis -40  
KPX Acircumflex C -30  
KPX Acircumflex Cacute -30  
KPX Acircumflex Ccaron -30  
KPX Acircumflex Ccedilla -30  
KPX Acircumflex G -30  
KPX Acircumflex Gbreve -30  
KPX Acircumflex Gcommaaccent -30  
KPX Acircumflex O -30  
KPX Acircumflex Oacute -30  
KPX Acircumflex Ocircumflex -30  
KPX Acircumflex Odieresis -30  
KPX Acircumflex Ograve -30  
KPX Acircumflex Ohungarumlaut -30  
KPX Acircumflex Omacron -30  
KPX Acircumflex Oslash -30  
KPX Acircumflex Otilde -30

KPX Acircumflex Q -30  
KPX Acircumflex T -120  
KPX Acircumflex Tcaron -120  
KPX Acircumflex Tcommaaccent -120  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50  
KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50  
KPX Acircumflex V -70  
KPX Acircumflex W -50  
KPX Acircumflex Y -100  
KPX Acircumflex Yacute -100  
KPX Acircumflex Ydieresis -100  
KPX Acircumflex u -30  
KPX Acircumflex uacute -30  
KPX Acircumflex ucircumflex -30  
KPX Acircumflex udieresis -30  
KPX Acircumflex ugrave -30  
KPX Acircumflex uhungarumlaut -30  
KPX Acircumflex umacron -30  
KPX Acircumflex uogonek -30  
KPX Acircumflex uring -30  
KPX Acircumflex v -40  
KPX Acircumflex w -40  
KPX Acircumflex y -40  
KPX Acircumflex yacute -40  
KPX Acircumflex ydieresis -40  
KPX Adieresis C -30  
KPX Adieresis Cacute -30  
KPX Adieresis Ccaron -30  
KPX Adieresis Ccedilla -30  
KPX Adieresis G -30  
KPX Adieresis Gbreve -30  
KPX Adieresis Gcommaaccent -30  
KPX Adieresis O -30  
KPX Adieresis Oacute -30  
KPX Adieresis Ocircumflex -30  
KPX Adieresis Odieresis -30  
KPX Adieresis Ograve -30  
KPX Adieresis Ohungarumlaut -30  
KPX Adieresis Omacron -30  
KPX Adieresis Oslash -30  
KPX Adieresis Otilde -30

KPX Adieresis Q -30  
KPX Adieresis T -120  
KPX Adieresis Tcaron -120  
KPX Adieresis Tcommaaccent -120  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50  
KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50  
KPX Adieresis V -70  
KPX Adieresis W -50  
KPX Adieresis Y -100  
KPX Adieresis Yacute -100  
KPX Adieresis Ydieresis -100  
KPX Adieresis u -30  
KPX Adieresis uacute -30  
KPX Adieresis ucircumflex -30  
KPX Adieresis udieresis -30  
KPX Adieresis ugrave -30  
KPX Adieresis uhungarumlaut -30  
KPX Adieresis umacron -30  
KPX Adieresis uogonek -30  
KPX Adieresis uring -30  
KPX Adieresis v -40  
KPX Adieresis w -40  
KPX Adieresis y -40  
KPX Adieresis yacute -40  
KPX Adieresis ydieresis -40  
KPX Agrave C -30  
KPX Agrave Cacute -30  
KPX Agrave Ccaron -30  
KPX Agrave Ccedilla -30  
KPX Agrave G -30  
KPX Agrave Gbreve -30  
KPX Agrave Gcommaaccent -30  
KPX Agrave O -30  
KPX Agrave Oacute -30  
KPX Agrave Ocircumflex -30  
KPX Agrave Odieresis -30  
KPX Agrave Ograve -30  
KPX Agrave Ohungarumlaut -30  
KPX Agrave Omacron -30  
KPX Agrave Oslash -30  
KPX Agrave Otilde -30

KPX Agrave Q -30  
KPX Agrave T -120  
KPX Agrave Tcaron -120  
KPX Agrave Tcommaaccent -120  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50  
KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50  
KPX Agrave Uogonek -50  
KPX Agrave Uring -50  
KPX Agrave V -70  
KPX Agrave W -50  
KPX Agrave Y -100  
KPX Agrave Yacute -100  
KPX Agrave Ydieresis -100  
KPX Agrave u -30  
KPX Agrave uacute -30  
KPX Agrave ucircumflex -30  
KPX Agrave udieresis -30  
KPX Agrave ugrave -30  
KPX Agrave uhungarumlaut -30  
KPX Agrave umacron -30  
KPX Agrave uogonek -30  
KPX Agrave uring -30  
KPX Agrave v -40  
KPX Agrave w -40  
KPX Agrave y -40  
KPX Agrave yacute -40  
KPX Agrave ydieresis -40  
KPX Amacron C -30  
KPX Amacron Cacute -30  
KPX Amacron Ccaron -30  
KPX Amacron Ccedilla -30  
KPX Amacron G -30  
KPX Amacron Gbreve -30  
KPX Amacron Gcommaaccent -30  
KPX Amacron O -30  
KPX Amacron Oacute -30  
KPX Amacron Ocircumflex -30  
KPX Amacron Odieresis -30  
KPX Amacron Ograve -30  
KPX Amacron Ohungarumlaut -30  
KPX Amacron Omacron -30  
KPX Amacron Oslash -30  
KPX Amacron Otilde -30

KPX Amacron Q -30  
KPX Amacron T -120  
KPX Amacron Tcaron -120  
KPX Amacron Tcommaaccent -120  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50  
KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50  
KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -70  
KPX Amacron W -50  
KPX Amacron Y -100  
KPX Amacron Yacute -100  
KPX Amacron Ydieresis -100  
KPX Amacron u -30  
KPX Amacron uacute -30  
KPX Amacron ucircumflex -30  
KPX Amacron udieresis -30  
KPX Amacron ugrave -30  
KPX Amacron uhungarumlaut -30  
KPX Amacron umacron -30  
KPX Amacron uogonek -30  
KPX Amacron uring -30  
KPX Amacron v -40  
KPX Amacron w -40  
KPX Amacron y -40  
KPX Amacron yacute -40  
KPX Amacron ydieresis -40  
KPX Aogonek C -30  
KPX Aogonek Cacute -30  
KPX Aogonek Ccaron -30  
KPX Aogonek Ccedilla -30  
KPX Aogonek G -30  
KPX Aogonek Gbreve -30  
KPX Aogonek Gcommaaccent -30  
KPX Aogonek O -30  
KPX Aogonek Oacute -30  
KPX Aogonek Ocircumflex -30  
KPX Aogonek Odieresis -30  
KPX Aogonek Ograve -30  
KPX Aogonek Ohungarumlaut -30  
KPX Aogonek Omacron -30  
KPX Aogonek Oslash -30  
KPX Aogonek Otilde -30

KPX Aogonek Q -30  
KPX Aogonek T -120  
KPX Aogonek Tcaron -120  
KPX Aogonek Tcommaaccent -120  
KPX Aogonek U -50  
KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50  
KPX Aogonek Umacron -50  
KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -70  
KPX Aogonek W -50  
KPX Aogonek Y -100  
KPX Aogonek Yacute -100  
KPX Aogonek Ydieresis -100  
KPX Aogonek u -30  
KPX Aogonek uacute -30  
KPX Aogonek ucircumflex -30  
KPX Aogonek udieresis -30  
KPX Aogonek ugrave -30  
KPX Aogonek uhungarumlaut -30  
KPX Aogonek umacron -30  
KPX Aogonek uogonek -30  
KPX Aogonek uring -30  
KPX Aogonek v -40  
KPX Aogonek w -40  
KPX Aogonek y -40  
KPX Aogonek yacute -40  
KPX Aogonek ydieresis -40  
KPX Aring C -30  
KPX Aring Cacute -30  
KPX Aring Ccaron -30  
KPX Aring Ccedilla -30  
KPX Aring G -30  
KPX Aring Gbreve -30  
KPX Aring Gcommaaccent -30  
KPX Aring O -30  
KPX Aring Oacute -30  
KPX Aring Ocircumflex -30  
KPX Aring Odieresis -30  
KPX Aring Ograve -30  
KPX Aring Ohungarumlaut -30  
KPX Aring Omacron -30  
KPX Aring Oslash -30  
KPX Aring Otilde -30



KPX Aring Q -30  
KPX Aring T -120  
KPX Aring Tcaron -120  
KPX Aring Tcommaaccent -120  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50  
KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50  
KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -70  
KPX Aring W -50  
KPX Aring Y -100  
KPX Aring Yacute -100  
KPX Aring Ydieresis -100  
KPX Aring u -30  
KPX Aring uacute -30  
KPX Aring ucircumflex -30  
KPX Aring udieresis -30  
KPX Aring ugrave -30  
KPX Aring uhungarumlaut -30  
KPX Aring umacron -30  
KPX Aring uogonek -30  
KPX Aring uring -30  
KPX Aring v -40  
KPX Aring w -40  
KPX Aring y -40  
KPX Aring yacute -40  
KPX Aring ydieresis -40  
KPX Atilde C -30  
KPX Atilde Cacute -30  
KPX Atilde Ccaron -30  
KPX Atilde Ccedilla -30  
KPX Atilde G -30  
KPX Atilde Gbreve -30  
KPX Atilde Gcommaaccent -30  
KPX Atilde O -30  
KPX Atilde Oacute -30  
KPX Atilde Ocircumflex -30  
KPX Atilde Odieresis -30  
KPX Atilde Ograve -30  
KPX Atilde Ohungarumlaut -30  
KPX Atilde Omacron -30  
KPX Atilde Oslash -30  
KPX Atilde Otilde -30

KPX Atilde Q -30  
KPX Atilde T -120  
KPX Atilde Tcaron -120  
KPX Atilde Tcommaaccent -120  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50  
KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50  
KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -70  
KPX Atilde W -50  
KPX Atilde Y -100  
KPX Atilde Yacute -100  
KPX Atilde Ydieresis -100  
KPX Atilde u -30  
KPX Atilde uacute -30  
KPX Atilde ucircumflex -30  
KPX Atilde udieresis -30  
KPX Atilde ugrave -30  
KPX Atilde uhungarumlaut -30  
KPX Atilde umacron -30  
KPX Atilde uogonek -30  
KPX Atilde uring -30  
KPX Atilde v -40  
KPX Atilde w -40  
KPX Atilde y -40  
KPX Atilde yacute -40  
KPX Atilde ydieresis -40  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10  
KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX B comma -20  
KPX B period -20  
KPX C comma -30  
KPX C period -30  
KPX Cacute comma -30  
KPX Cacute period -30  
KPX Ccaron comma -30

KPX Ccaron period -30  
KPX Ccedilla comma -30  
KPX Ccedilla period -30  
KPX D A -40  
KPX D Aacute -40  
KPX D Abreve -40  
KPX D Acircumflex -40  
KPX D Adieresis -40  
KPX D Agrave -40  
KPX D Amacron -40  
KPX D Aogonek -40  
KPX D Aring -40  
KPX D Atilde -40  
KPX D V -70  
KPX D W -40  
KPX D Y -90  
KPX D Yacute -90  
KPX D Ydieresis -90  
KPX D comma -70  
KPX D period -70  
KPX Dcaron A -40  
KPX Dcaron Aacute -40  
KPX Dcaron Abreve -40  
KPX Dcaron Acircumflex -40  
KPX Dcaron Adieresis -40  
KPX Dcaron Agrave -40  
KPX Dcaron Amacron -40  
KPX Dcaron Aogonek -40  
KPX Dcaron Aring -40  
KPX Dcaron Atilde -40  
KPX Dcaron V -70  
KPX Dcaron W -40  
KPX Dcaron Y -90  
KPX Dcaron Yacute -90  
KPX Dcaron Ydieresis -90  
KPX Dcaron comma -70  
KPX Dcaron period -70  
KPX Dcroat A -40  
KPX Dcroat Aacute -40  
KPX Dcroat Abreve -40  
KPX Dcroat Acircumflex -40  
KPX Dcroat Adieresis -40  
KPX Dcroat Agrave -40  
KPX Dcroat Amacron -40  
KPX Dcroat Aogonek -40  
KPX Dcroat Aring -40  
KPX Dcroat Atilde -40  
KPX Dcroat V -70

KPX Dcroat W -40  
KPX Dcroat Y -90  
KPX Dcroat Yacute -90  
KPX Dcroat Ydieresis -90  
KPX Dcroat comma -70  
KPX Dcroat period -70  
KPX F A -80  
KPX F Aacute -80  
KPX F Abreve -80  
KPX F Acircumflex -80  
KPX F Adieresis -80  
KPX F Agrave -80  
KPX F Amacron -80  
KPX F Aogonek -80  
KPX F Aring -80  
KPX F Atilde -80  
KPX F a -50  
KPX F aacute -50  
KPX F abreve -50  
KPX F acircumflex -50  
KPX F adieresis -50  
KPX F agrave -50  
KPX F amacron -50  
KPX F aogonek -50  
KPX F aring -50  
KPX F atilde -50  
KPX F comma -150  
KPX F e -30  
KPX F eacute -30  
KPX F ecaron -30  
KPX F ecircumflex -30  
KPX F edieresis -30  
KPX F edotaccent -30  
KPX F egrave -30  
KPX F emacron -30  
KPX F eogonek -30  
KPX F o -30  
KPX F oacute -30  
KPX F ocircumflex -30  
KPX F odieresis -30  
KPX F ograve -30  
KPX F ohungarumlaut -30  
KPX F omacron -30  
KPX F oslash -30  
KPX F otilde -30  
KPX F period -150  
KPX F r -45  
KPX F racute -45

KPX F rcaron -45  
KPX F rcommaaccent -45  
KPX J A -20  
KPX J Aacute -20  
KPX J Abreve -20  
KPX J Acircumflex -20  
KPX J Adieresis -20  
KPX J Agrave -20  
KPX J Amacron -20  
KPX J Aogonek -20  
KPX J Aring -20  
KPX J Atilde -20  
KPX J a -20  
KPX J aacute -20  
KPX J abreve -20  
KPX J acircumflex -20  
KPX J adieresis -20  
KPX J agrave -20  
KPX J amacron -20  
KPX J aogonek -20  
KPX J aring -20  
KPX J atilde -20  
KPX J comma -30  
KPX J period -30  
KPX J u -20  
KPX J uacute -20  
KPX J ucircumflex -20  
KPX J udieresis -20  
KPX J ugrave -20  
KPX J uhungarumlaut -20  
KPX J umacron -20  
KPX J uogonek -20  
KPX J uring -20  
KPX K O -50  
KPX K Oacute -50  
KPX K Ocircumflex -50  
KPX K Odieresis -50  
KPX K Ograve -50  
KPX K Ohungarumlaut -50  
KPX K Omacron -50  
KPX K Oslash -50  
KPX K Otilde -50  
KPX K e -40  
KPX K eacute -40  
KPX K ecaron -40  
KPX K ecircumflex -40  
KPX K edieresis -40  
KPX K edotaccent -40

KPX K egrave -40  
KPX K emacron -40  
KPX K eogonek -40  
KPX K o -40  
KPX K oacute -40  
KPX K ocircumflex -40  
KPX K odieresis -40  
KPX K ograve -40  
KPX K ohungarumlaut -40  
KPX K omacron -40  
KPX K oslash -40  
KPX K otilde -40  
KPX K u -30  
KPX K uacute -30  
KPX K ucircumflex -30  
KPX K udieresis -30  
KPX K ugrave -30  
KPX K uhungarumlaut -30  
KPX K umacron -30  
KPX K uogonek -30  
KPX K uring -30  
KPX K y -50  
KPX K yacute -50  
KPX K ydieresis -50  
KPX Kcommaaccent O -50  
KPX Kcommaaccent Oacute -50  
KPX Kcommaaccent Ocircumflex -50  
KPX Kcommaaccent Odieresis -50  
KPX Kcommaaccent Ograve -50  
KPX Kcommaaccent Ohungarumlaut -50  
KPX Kcommaaccent Omacron -50  
KPX Kcommaaccent Oslash -50  
KPX Kcommaaccent Otilde -50  
KPX Kcommaaccent e -40  
KPX Kcommaaccent eacute -40  
KPX Kcommaaccent ecaron -40  
KPX Kcommaaccent ecircumflex -40  
KPX Kcommaaccent edieresis -40  
KPX Kcommaaccent edotaccent -40  
KPX Kcommaaccent egrave -40  
KPX Kcommaaccent emacron -40  
KPX Kcommaaccent eogonek -40  
KPX Kcommaaccent o -40  
KPX Kcommaaccent oacute -40  
KPX Kcommaaccent ocircumflex -40  
KPX Kcommaaccent odieresis -40  
KPX Kcommaaccent ograve -40  
KPX Kcommaaccent ohungarumlaut -40

KPX Kcommaaccent omacron -40  
KPX Kcommaaccent oslash -40  
KPX Kcommaaccent otilde -40  
KPX Kcommaaccent u -30  
KPX Kcommaaccent uacute -30  
KPX Kcommaaccent ucircumflex -30  
KPX Kcommaaccent udieresis -30  
KPX Kcommaaccent ugrave -30  
KPX Kcommaaccent uhungarumlaut -30  
KPX Kcommaaccent umacron -30  
KPX Kcommaaccent uogonek -30  
KPX Kcommaaccent uring -30  
KPX Kcommaaccent y -50  
KPX Kcommaaccent yacute -50  
KPX Kcommaaccent ydieresis -50  
KPX L T -110  
KPX L Tcaron -110  
KPX L Tcommaaccent -110  
KPX L V -110  
KPX L W -70  
KPX L Y -140  
KPX L Yacute -140  
KPX L Ydieresis -140  
KPX L quotedblright -140  
KPX L quoteright -160  
KPX L y -30  
KPX L yacute -30  
KPX L ydieresis -30  
KPX Lacute T -110  
KPX Lacute Tcaron -110  
KPX Lacute Tcommaaccent -110  
KPX Lacute V -110  
KPX Lacute W -70  
KPX Lacute Y -140  
KPX Lacute Yacute -140  
KPX Lacute Ydieresis -140  
KPX Lacute quotedblright -140  
KPX Lacute quoteright -160  
KPX Lacute y -30  
KPX Lacute yacute -30  
KPX Lacute ydieresis -30  
KPX Lcaron T -110  
KPX Lcaron Tcaron -110  
KPX Lcaron Tcommaaccent -110  
KPX Lcaron V -110  
KPX Lcaron W -70  
KPX Lcaron Y -140  
KPX Lcaron Yacute -140

KPX Lcaron Ydieresis -140  
KPX Lcaron quotedblright -140  
KPX Lcaron quoteright -160  
KPX Lcaron y -30  
KPX Lcaron yacute -30  
KPX Lcaron ydieresis -30  
KPX Lcommaaccent T -110  
KPX Lcommaaccent Tcaron -110  
KPX Lcommaaccent Tcommaaccent -110  
KPX Lcommaaccent V -110  
KPX Lcommaaccent W -70  
KPX Lcommaaccent Y -140  
KPX Lcommaaccent Yacute -140  
KPX Lcommaaccent Ydieresis -140  
KPX Lcommaaccent quotedblright -140  
KPX Lcommaaccent quoteright -160  
KPX Lcommaaccent y -30  
KPX Lcommaaccent yacute -30  
KPX Lcommaaccent ydieresis -30  
KPX Lslash T -110  
KPX Lslash Tcaron -110  
KPX Lslash Tcommaaccent -110  
KPX Lslash V -110  
KPX Lslash W -70  
KPX Lslash Y -140  
KPX Lslash Yacute -140  
KPX Lslash Ydieresis -140  
KPX Lslash quotedblright -140  
KPX Lslash quoteright -160  
KPX Lslash y -30  
KPX Lslash yacute -30  
KPX Lslash ydieresis -30  
KPX O A -20  
KPX O Aacute -20  
KPX O Abreve -20  
KPX O Acircumflex -20  
KPX O Adieresis -20  
KPX O Agrave -20  
KPX O Amacron -20  
KPX O Aogonek -20  
KPX O Aring -20  
KPX O Atilde -20  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -30  
KPX O X -60



KPX O Y -70  
KPX O Yacute -70  
KPX O Ydieresis -70  
KPX O comma -40  
KPX O period -40  
KPX Oacute A -20  
KPX Oacute Aacute -20  
KPX Oacute Abreve -20  
KPX Oacute Acircumflex -20  
KPX Oacute Adieresis -20  
KPX Oacute Agrave -20  
KPX Oacute Amacron -20  
KPX Oacute Aogonek -20  
KPX Oacute Aring -20  
KPX Oacute Atilde -20  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -30  
KPX Oacute X -60  
KPX Oacute Y -70  
KPX Oacute Yacute -70  
KPX Oacute Ydieresis -70  
KPX Oacute comma -40  
KPX Oacute period -40  
KPX Ocircumflex A -20  
KPX Ocircumflex Aacute -20  
KPX Ocircumflex Abreve -20  
KPX Ocircumflex Acircumflex -20  
KPX Ocircumflex Adieresis -20  
KPX Ocircumflex Agrave -20  
KPX Ocircumflex Amacron -20  
KPX Ocircumflex Aogonek -20  
KPX Ocircumflex Aring -20  
KPX Ocircumflex Atilde -20  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -30  
KPX Ocircumflex X -60  
KPX Ocircumflex Y -70  
KPX Ocircumflex Yacute -70  
KPX Ocircumflex Ydieresis -70  
KPX Ocircumflex comma -40  
KPX Ocircumflex period -40  
KPX Odieresis A -20

KPX Odieresis Aacute -20  
KPX Odieresis Abreve -20  
KPX Odieresis Acircumflex -20  
KPX Odieresis Adieresis -20  
KPX Odieresis Agrave -20  
KPX Odieresis Amacron -20  
KPX Odieresis Aogonek -20  
KPX Odieresis Aring -20  
KPX Odieresis Atilde -20  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -30  
KPX Odieresis X -60  
KPX Odieresis Y -70  
KPX Odieresis Yacute -70  
KPX Odieresis Ydieresis -70  
KPX Odieresis comma -40  
KPX Odieresis period -40  
KPX Ograve A -20  
KPX Ograve Aacute -20  
KPX Ograve Abreve -20  
KPX Ograve Acircumflex -20  
KPX Ograve Adieresis -20  
KPX Ograve Agrave -20  
KPX Ograve Amacron -20  
KPX Ograve Aogonek -20  
KPX Ograve Aring -20  
KPX Ograve Atilde -20  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -30  
KPX Ograve X -60  
KPX Ograve Y -70  
KPX Ograve Yacute -70  
KPX Ograve Ydieresis -70  
KPX Ograve comma -40  
KPX Ograve period -40  
KPX Ohungarumlaut A -20  
KPX Ohungarumlaut Aacute -20  
KPX Ohungarumlaut Abreve -20  
KPX Ohungarumlaut Acircumflex -20  
KPX Ohungarumlaut Adieresis -20  
KPX Ohungarumlaut Agrave -20  
KPX Ohungarumlaut Amacron -20

KPX Ohungarumlaut Aogonek -20  
KPX Ohungarumlaut Aring -20  
KPX Ohungarumlaut Atilde -20  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -30  
KPX Ohungarumlaut X -60  
KPX Ohungarumlaut Y -70  
KPX Ohungarumlaut Yacute -70  
KPX Ohungarumlaut Ydieresis -70  
KPX Ohungarumlaut comma -40  
KPX Ohungarumlaut period -40  
KPX Omacron A -20  
KPX Omacron Aacute -20  
KPX Omacron Abreve -20  
KPX Omacron Acircumflex -20  
KPX Omacron Adieresis -20  
KPX Omacron Agrave -20  
KPX Omacron Amacron -20  
KPX Omacron Aogonek -20  
KPX Omacron Aring -20  
KPX Omacron Atilde -20  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -30  
KPX Omacron X -60  
KPX Omacron Y -70  
KPX Omacron Yacute -70  
KPX Omacron Ydieresis -70  
KPX Omacron comma -40  
KPX Omacron period -40  
KPX Oslash A -20  
KPX Oslash Aacute -20  
KPX Oslash Abreve -20  
KPX Oslash Acircumflex -20  
KPX Oslash Adieresis -20  
KPX Oslash Agrave -20  
KPX Oslash Amacron -20  
KPX Oslash Aogonek -20  
KPX Oslash Aring -20  
KPX Oslash Atilde -20  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40

KPX Oslash V -50  
KPX Oslash W -30  
KPX Oslash X -60  
KPX Oslash Y -70  
KPX Oslash Yacute -70  
KPX Oslash Ydieresis -70  
KPX Oslash comma -40  
KPX Oslash period -40  
KPX Otilde A -20  
KPX Otilde Aacute -20  
KPX Otilde Abreve -20  
KPX Otilde Acircumflex -20  
KPX Otilde Adieresis -20  
KPX Otilde Agrave -20  
KPX Otilde Amacron -20  
KPX Otilde Aogonek -20  
KPX Otilde Aring -20  
KPX Otilde Atilde -20  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -30  
KPX Otilde X -60  
KPX Otilde Y -70  
KPX Otilde Yacute -70  
KPX Otilde Ydieresis -70  
KPX Otilde comma -40  
KPX Otilde period -40  
KPX P A -120  
KPX P Aacute -120  
KPX P Abreve -120  
KPX P Acircumflex -120  
KPX P Adieresis -120  
KPX P Agrave -120  
KPX P Amacron -120  
KPX P Aogonek -120  
KPX P Aring -120  
KPX P Atilde -120  
KPX P a -40  
KPX P aacute -40  
KPX P abreve -40  
KPX P acircumflex -40  
KPX P adieresis -40  
KPX P agrave -40  
KPX P amacron -40  
KPX P aogonek -40  
KPX P aring -40

KPX P atilde -40  
KPX P comma -180  
KPX P e -50  
KPX P eacute -50  
KPX P ecaron -50  
KPX P ecircumflex -50  
KPX P edieresis -50  
KPX P edotaccent -50  
KPX P egrave -50  
KPX P emacron -50  
KPX P eogonek -50  
KPX P o -50  
KPX P oacute -50  
KPX P ocircumflex -50  
KPX P odieresis -50  
KPX P ograve -50  
KPX P ohungarumlaut -50  
KPX P omacron -50  
KPX P oslash -50  
KPX P otilde -50  
KPX P period -180  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX R O -20  
KPX R Oacute -20  
KPX R Ocircumflex -20  
KPX R Odieresis -20  
KPX R Ograve -20  
KPX R Ohungarumlaut -20  
KPX R Omacron -20  
KPX R Oslash -20  
KPX R Otilde -20  
KPX R T -30  
KPX R Tcaron -30  
KPX R Tcommaaccent -30  
KPX R U -40  
KPX R Uacute -40  
KPX R Ucircumflex -40  
KPX R Udieresis -40  
KPX R Ugrave -40  
KPX R Uhungarumlaut -40

KPX R Umacron -40  
KPX R Uogonek -40  
KPX R Uring -40  
KPX R V -50  
KPX R W -30  
KPX R Y -50  
KPX R Yacute -50  
KPX R Ydieresis -50  
KPX Racute O -20  
KPX Racute Oacute -20  
KPX Racute Ocircumflex -20  
KPX Racute Odieresis -20  
KPX Racute Ograve -20  
KPX Racute Ohungarumlaut -20  
KPX Racute Omacron -20  
KPX Racute Oslash -20  
KPX Racute Otilde -20  
KPX Racute T -30  
KPX Racute Tcaron -30  
KPX Racute Tcommaaccent -30  
KPX Racute U -40  
KPX Racute Uacute -40  
KPX Racute Ucircumflex -40  
KPX Racute Udieresis -40  
KPX Racute Ugrave -40  
KPX Racute Uhungarumlaut -40  
KPX Racute Umacron -40  
KPX Racute Uogonek -40  
KPX Racute Uring -40  
KPX Racute V -50  
KPX Racute W -30  
KPX Racute Y -50  
KPX Racute Yacute -50  
KPX Racute Ydieresis -50  
KPX Rcaron O -20  
KPX Rcaron Oacute -20  
KPX Rcaron Ocircumflex -20  
KPX Rcaron Odieresis -20  
KPX Rcaron Ograve -20  
KPX Rcaron Ohungarumlaut -20  
KPX Rcaron Omacron -20  
KPX Rcaron Oslash -20  
KPX Rcaron Otilde -20  
KPX Rcaron T -30  
KPX Rcaron Tcaron -30  
KPX Rcaron Tcommaaccent -30  
KPX Rcaron U -40  
KPX Rcaron Uacute -40

KPX Rcaron Ucircumflex -40  
KPX Rcaron Udieresis -40  
KPX Rcaron Ugrave -40  
KPX Rcaron Uhungarumlaut -40  
KPX Rcaron Umacron -40  
KPX Rcaron Uogonek -40  
KPX Rcaron Uring -40  
KPX Rcaron V -50  
KPX Rcaron W -30  
KPX Rcaron Y -50  
KPX Rcaron Yacute -50  
KPX Rcaron Ydieresis -50  
KPX Rcommaaccent O -20  
KPX Rcommaaccent Oacute -20  
KPX Rcommaaccent Ocircumflex -20  
KPX Rcommaaccent Odieresis -20  
KPX Rcommaaccent Ograve -20  
KPX Rcommaaccent Ohungarumlaut -20  
KPX Rcommaaccent Omacron -20  
KPX Rcommaaccent Oslash -20  
KPX Rcommaaccent Otilde -20  
KPX Rcommaaccent T -30  
KPX Rcommaaccent Tcaron -30  
KPX Rcommaaccent Tcommaaccent -30  
KPX Rcommaaccent U -40  
KPX Rcommaaccent Uacute -40  
KPX Rcommaaccent Ucircumflex -40  
KPX Rcommaaccent Udieresis -40  
KPX Rcommaaccent Ugrave -40  
KPX Rcommaaccent Uhungarumlaut -40  
KPX Rcommaaccent Umacron -40  
KPX Rcommaaccent Uogonek -40  
KPX Rcommaaccent Uring -40  
KPX Rcommaaccent V -50  
KPX Rcommaaccent W -30  
KPX Rcommaaccent Y -50  
KPX Rcommaaccent Yacute -50  
KPX Rcommaaccent Ydieresis -50  
KPX S comma -20  
KPX S period -20  
KPX Sacute comma -20  
KPX Sacute period -20  
KPX Scaron comma -20  
KPX Scaron period -20  
KPX Scedilla comma -20  
KPX Scedilla period -20  
KPX Scommaaccent comma -20  
KPX Scommaaccent period -20

KPX T A -120  
KPX T Aacute -120  
KPX T Abreve -120  
KPX T Acircumflex -120  
KPX T Adieresis -120  
KPX T Agrave -120  
KPX T Amacron -120  
KPX T Aogonek -120  
KPX T Aring -120  
KPX T Atilde -120  
KPX T O -40  
KPX T Oacute -40  
KPX T Ocircumflex -40  
KPX T Odieresis -40  
KPX T Ograve -40  
KPX T Ohungarumlaut -40  
KPX T Omacron -40  
KPX T Oslash -40  
KPX T Otilde -40  
KPX T a -120  
KPX T aacute -120  
KPX T abreve -60  
KPX T acircumflex -120  
KPX T adieresis -120  
KPX T agrave -120  
KPX T amacron -60  
KPX T aogonek -120  
KPX T aring -120  
KPX T atilde -60  
KPX T colon -20  
KPX T comma -120  
KPX T e -120  
KPX T eacute -120  
KPX T ecaron -120  
KPX T ecircumflex -120  
KPX T edieresis -120  
KPX T edotaccent -120  
KPX T egrave -60  
KPX T emacron -60  
KPX T eogonek -120  
KPX T hyphen -140  
KPX T o -120  
KPX T oacute -120  
KPX T ocircumflex -120  
KPX T odieresis -120  
KPX T ograve -120  
KPX T ohungarumlaut -120  
KPX T omacron -60



KPX T oslash -120  
KPX T otilde -60  
KPX T period -120  
KPX T r -120  
KPX T racute -120  
KPX T rcaron -120  
KPX T rcommaaccent -120  
KPX T semicolon -20  
KPX T u -120  
KPX T uacute -120  
KPX T ucircumflex -120  
KPX T udieresis -120  
KPX T ugrave -120  
KPX T uhungarumlaut -120  
KPX T umacron -60  
KPX T uogonek -120  
KPX T uring -120  
KPX T w -120  
KPX T y -120  
KPX T yacute -120  
KPX T ydieresis -60  
KPX Tcaron A -120  
KPX Tcaron Aacute -120  
KPX Tcaron Abreve -120  
KPX Tcaron Acircumflex -120  
KPX Tcaron Adieresis -120  
KPX Tcaron Agrave -120  
KPX Tcaron Amacron -120  
KPX Tcaron Aogonek -120  
KPX Tcaron Aring -120  
KPX Tcaron Atilde -120  
KPX Tcaron O -40  
KPX Tcaron Oacute -40  
KPX Tcaron Ocircumflex -40  
KPX Tcaron Odieresis -40  
KPX Tcaron Ograve -40  
KPX Tcaron Ohungarumlaut -40  
KPX Tcaron Omacron -40  
KPX Tcaron Oslash -40  
KPX Tcaron Otilde -40  
KPX Tcaron a -120  
KPX Tcaron aacute -120  
KPX Tcaron abreve -60  
KPX Tcaron acircumflex -120  
KPX Tcaron adieresis -120  
KPX Tcaron agrave -120  
KPX Tcaron amacron -60  
KPX Tcaron aogonek -120

KPX Tcaron aring -120  
KPX Tcaron atilde -60  
KPX Tcaron colon -20  
KPX Tcaron comma -120  
KPX Tcaron e -120  
KPX Tcaron eacute -120  
KPX Tcaron ecaron -120  
KPX Tcaron ecircumflex -120  
KPX Tcaron edieresis -120  
KPX Tcaron edotaccent -120  
KPX Tcaron egrave -60  
KPX Tcaron emacron -60  
KPX Tcaron eogonek -120  
KPX Tcaron hyphen -140  
KPX Tcaron o -120  
KPX Tcaron oacute -120  
KPX Tcaron ocircumflex -120  
KPX Tcaron odieresis -120  
KPX Tcaron ograve -120  
KPX Tcaron ohungarumlaut -120  
KPX Tcaron omacron -60  
KPX Tcaron oslash -120  
KPX Tcaron otilde -60  
KPX Tcaron period -120  
KPX Tcaron r -120  
KPX Tcaron racute -120  
KPX Tcaron rcaron -120  
KPX Tcaron rcommaaccent -120  
KPX Tcaron semicolon -20  
KPX Tcaron u -120  
KPX Tcaron uacute -120  
KPX Tcaron ucircumflex -120  
KPX Tcaron udieresis -120  
KPX Tcaron ugrave -120  
KPX Tcaron uhungarumlaut -120  
KPX Tcaron umacron -60  
KPX Tcaron uogonek -120  
KPX Tcaron uring -120  
KPX Tcaron w -120  
KPX Tcaron y -120  
KPX Tcaron yacute -120  
KPX Tcaron ydieresis -60  
KPX Tcommaaccent A -120  
KPX Tcommaaccent Aacute -120  
KPX Tcommaaccent Abreve -120  
KPX Tcommaaccent Acircumflex -120  
KPX Tcommaaccent Adieresis -120  
KPX Tcommaaccent Agrave -120

KPX Tcommaaccent Amacron -120  
KPX Tcommaaccent Aogonek -120  
KPX Tcommaaccent Aring -120  
KPX Tcommaaccent Atilde -120  
KPX Tcommaaccent O -40  
KPX Tcommaaccent Oacute -40  
KPX Tcommaaccent Ocircumflex -40  
KPX Tcommaaccent Odieresis -40  
KPX Tcommaaccent Ograve -40  
KPX Tcommaaccent Ohungarumlaut -40  
KPX Tcommaaccent Omacron -40  
KPX Tcommaaccent Oslash -40  
KPX Tcommaaccent Otilde -40  
KPX Tcommaaccent a -120  
KPX Tcommaaccent aacute -120  
KPX Tcommaaccent abreve -60  
KPX Tcommaaccent acircumflex -120  
KPX Tcommaaccent adieresis -120  
KPX Tcommaaccent agrave -120  
KPX Tcommaaccent amacron -60  
KPX Tcommaaccent aogonek -120  
KPX Tcommaaccent aring -120  
KPX Tcommaaccent atilde -60  
KPX Tcommaaccent colon -20  
KPX Tcommaaccent comma -120  
KPX Tcommaaccent e -120  
KPX Tcommaaccent eacute -120  
KPX Tcommaaccent ecaron -120  
KPX Tcommaaccent ecircumflex -120  
KPX Tcommaaccent edieresis -120  
KPX Tcommaaccent edotaccent -120  
KPX Tcommaaccent egrave -60  
KPX Tcommaaccent emacron -60  
KPX Tcommaaccent eogonek -120  
KPX Tcommaaccent hyphen -140  
KPX Tcommaaccent o -120  
KPX Tcommaaccent oacute -120  
KPX Tcommaaccent ocircumflex -120  
KPX Tcommaaccent odieresis -120  
KPX Tcommaaccent ograve -120  
KPX Tcommaaccent ohungarumlaut -120  
KPX Tcommaaccent omacron -60  
KPX Tcommaaccent oslash -120  
KPX Tcommaaccent otilde -60  
KPX Tcommaaccent period -120  
KPX Tcommaaccent r -120  
KPX Tcommaaccent racute -120  
KPX Tcommaaccent rcaron -120

KPX Tcommaaccent rcommaaccent -120  
KPX Tcommaaccent semicolon -20  
KPX Tcommaaccent u -120  
KPX Tcommaaccent uacute -120  
KPX Tcommaaccent ucircumflex -120  
KPX Tcommaaccent udieresis -120  
KPX Tcommaaccent ugrave -120  
KPX Tcommaaccent uhungarumlaut -120  
KPX Tcommaaccent umacron -60  
KPX Tcommaaccent uogonek -120  
KPX Tcommaaccent uring -120  
KPX Tcommaaccent w -120  
KPX Tcommaaccent y -120  
KPX Tcommaaccent yacute -120  
KPX Tcommaaccent ydieresis -60  
KPX U A -40  
KPX U Aacute -40  
KPX U Abreve -40  
KPX U Acircumflex -40  
KPX U Adieresis -40  
KPX U Agrave -40  
KPX U Amacron -40  
KPX U Aogonek -40  
KPX U Aring -40  
KPX U Atilde -40  
KPX U comma -40  
KPX U period -40  
KPX Uacute A -40  
KPX Uacute Aacute -40  
KPX Uacute Abreve -40  
KPX Uacute Acircumflex -40  
KPX Uacute Adieresis -40  
KPX Uacute Agrave -40  
KPX Uacute Amacron -40  
KPX Uacute Aogonek -40  
KPX Uacute Aring -40  
KPX Uacute Atilde -40  
KPX Uacute comma -40  
KPX Uacute period -40  
KPX Ucircumflex A -40  
KPX Ucircumflex Aacute -40  
KPX Ucircumflex Abreve -40  
KPX Ucircumflex Acircumflex -40  
KPX Ucircumflex Adieresis -40  
KPX Ucircumflex Agrave -40  
KPX Ucircumflex Amacron -40  
KPX Ucircumflex Aogonek -40  
KPX Ucircumflex Aring -40

KPX Ucircumflex Atilde -40  
KPX Ucircumflex comma -40  
KPX Ucircumflex period -40  
KPX Udieresis A -40  
KPX Udieresis Aacute -40  
KPX Udieresis Abreve -40  
KPX Udieresis Acircumflex -40  
KPX Udieresis Adieresis -40  
KPX Udieresis Agrave -40  
KPX Udieresis Amacron -40  
KPX Udieresis Aogonek -40  
KPX Udieresis Aring -40  
KPX Udieresis Atilde -40  
KPX Udieresis comma -40  
KPX Udieresis period -40  
KPX Ugrave A -40  
KPX Ugrave Aacute -40  
KPX Ugrave Abreve -40  
KPX Ugrave Acircumflex -40  
KPX Ugrave Adieresis -40  
KPX Ugrave Agrave -40  
KPX Ugrave Amacron -40  
KPX Ugrave Aogonek -40  
KPX Ugrave Aring -40  
KPX Ugrave Atilde -40  
KPX Ugrave comma -40  
KPX Ugrave period -40  
KPX Uhungarumlaut A -40  
KPX Uhungarumlaut Aacute -40  
KPX Uhungarumlaut Abreve -40  
KPX Uhungarumlaut Acircumflex -40  
KPX Uhungarumlaut Adieresis -40  
KPX Uhungarumlaut Agrave -40  
KPX Uhungarumlaut Amacron -40  
KPX Uhungarumlaut Aogonek -40  
KPX Uhungarumlaut Aring -40  
KPX Uhungarumlaut Atilde -40  
KPX Uhungarumlaut comma -40  
KPX Uhungarumlaut period -40  
KPX Umacron A -40  
KPX Umacron Aacute -40  
KPX Umacron Abreve -40  
KPX Umacron Acircumflex -40  
KPX Umacron Adieresis -40  
KPX Umacron Agrave -40  
KPX Umacron Amacron -40  
KPX Umacron Aogonek -40  
KPX Umacron Aring -40

KPX Umacron Atilde -40  
KPX Umacron comma -40  
KPX Umacron period -40  
KPX Uogonek A -40  
KPX Uogonek Aacute -40  
KPX Uogonek Abreve -40  
KPX Uogonek Acircumflex -40  
KPX Uogonek Adieresis -40  
KPX Uogonek Agrave -40  
KPX Uogonek Amacron -40  
KPX Uogonek Aogonek -40  
KPX Uogonek Aring -40  
KPX Uogonek Atilde -40  
KPX Uogonek comma -40  
KPX Uogonek period -40  
KPX Uring A -40  
KPX Uring Aacute -40  
KPX Uring Abreve -40  
KPX Uring Acircumflex -40  
KPX Uring Adieresis -40  
KPX Uring Agrave -40  
KPX Uring Amacron -40  
KPX Uring Aogonek -40  
KPX Uring Aring -40  
KPX Uring Atilde -40  
KPX Uring comma -40  
KPX Uring period -40  
KPX V A -80  
KPX V Aacute -80  
KPX V Abreve -80  
KPX V Acircumflex -80  
KPX V Adieresis -80  
KPX V Agrave -80  
KPX V Amacron -80  
KPX V Aogonek -80  
KPX V Aring -80  
KPX V Atilde -80  
KPX V G -40  
KPX V Gbreve -40  
KPX V Gcommaaccent -40  
KPX V O -40  
KPX V Oacute -40  
KPX V Ocircumflex -40  
KPX V Odieresis -40  
KPX V Ograve -40  
KPX V Ohungarumlaut -40  
KPX V Omacron -40  
KPX V Oslash -40

KPX V Otilde -40  
KPX V a -70  
KPX V aacute -70  
KPX V abreve -70  
KPX V acircumflex -70  
KPX V adieresis -70  
KPX V agrave -70  
KPX V amacron -70  
KPX V aogonek -70  
KPX V aring -70  
KPX V atilde -70  
KPX V colon -40  
KPX V comma -125  
KPX V e -80  
KPX V eacute -80  
KPX V ecaron -80  
KPX V ecircumflex -80  
KPX V edieresis -80  
KPX V edotaccent -80  
KPX V egrave -80  
KPX V emacron -80  
KPX V eogonek -80  
KPX V hyphen -80  
KPX V o -80  
KPX V oacute -80  
KPX V ocircumflex -80  
KPX V odieresis -80  
KPX V ograve -80  
KPX V ohungarumlaut -80  
KPX V omacron -80  
KPX V oslash -80  
KPX V otilde -80  
KPX V period -125  
KPX V semicolon -40  
KPX V u -70  
KPX V uacute -70  
KPX V ucircumflex -70  
KPX V udieresis -70  
KPX V ugrave -70  
KPX V uhungarumlaut -70  
KPX V umacron -70  
KPX V uogonek -70  
KPX V uring -70  
KPX W A -50  
KPX W Aacute -50  
KPX W Abreve -50  
KPX W Acircumflex -50  
KPX W Adieresis -50

KPX W Agrave -50  
KPX W Amacron -50  
KPX W Aogonek -50  
KPX W Aring -50  
KPX W Atilde -50  
KPX W O -20  
KPX W Oacute -20  
KPX W Ocircumflex -20  
KPX W Odieresis -20  
KPX W Ograve -20  
KPX W Ohungarumlaut -20  
KPX W Omacron -20  
KPX W Oslash -20  
KPX W Otilde -20  
KPX W a -40  
KPX W aacute -40  
KPX W abreve -40  
KPX W acircumflex -40  
KPX W adieresis -40  
KPX W agrave -40  
KPX W amacron -40  
KPX W aogonek -40  
KPX W aring -40  
KPX W atilde -40  
KPX W comma -80  
KPX W e -30  
KPX W eacute -30  
KPX W ecaron -30  
KPX W ecircumflex -30  
KPX W edieresis -30  
KPX W edotaccent -30  
KPX W egrave -30  
KPX W emacron -30  
KPX W eogonek -30  
KPX W hyphen -40  
KPX W o -30  
KPX W oacute -30  
KPX W ocircumflex -30  
KPX W odieresis -30  
KPX W ograve -30  
KPX W ohungarumlaut -30  
KPX W omacron -30  
KPX W oslash -30  
KPX W otilde -30  
KPX W period -80  
KPX W u -30  
KPX W uacute -30  
KPX W ucircumflex -30



KPX W udieresis -30  
KPX W ugrave -30  
KPX W uhungarumlaut -30  
KPX W umacron -30  
KPX W uogonek -30  
KPX W uring -30  
KPX W y -20  
KPX W yacute -20  
KPX W ydieresis -20  
KPX Y A -110  
KPX Y Aacute -110  
KPX Y Abreve -110  
KPX Y Acircumflex -110  
KPX Y Adieresis -110  
KPX Y Agrave -110  
KPX Y Amacron -110  
KPX Y Aogonek -110  
KPX Y Aring -110  
KPX Y Atilde -110  
KPX Y O -85  
KPX Y Oacute -85  
KPX Y Ocircumflex -85  
KPX Y Odieresis -85  
KPX Y Ograve -85  
KPX Y Ohungarumlaut -85  
KPX Y Omacron -85  
KPX Y Oslash -85  
KPX Y Otilde -85  
KPX Y a -140  
KPX Y aacute -140  
KPX Y abreve -70  
KPX Y acircumflex -140  
KPX Y adieresis -140  
KPX Y agrave -140  
KPX Y amacron -70  
KPX Y aogonek -140  
KPX Y aring -140  
KPX Y atilde -140  
KPX Y colon -60  
KPX Y comma -140  
KPX Y e -140  
KPX Y eacute -140  
KPX Y ecaron -140  
KPX Y ecircumflex -140  
KPX Y edieresis -140  
KPX Y edotaccent -140  
KPX Y egrave -140  
KPX Y emacron -70

KPX Y eogonek -140  
KPX Y hyphen -140  
KPX Y i -20  
KPX Y iacute -20  
KPX Y iogonek -20  
KPX Y o -140  
KPX Y oacute -140  
KPX Y ocircumflex -140  
KPX Y odieresis -140  
KPX Y ograve -140  
KPX Y ohungarumlaut -140  
KPX Y omacron -140  
KPX Y oslash -140  
KPX Y otilde -140  
KPX Y period -140  
KPX Y semicolon -60  
KPX Y u -110  
KPX Y uacute -110  
KPX Y ucircumflex -110  
KPX Y udieresis -110  
KPX Y ugrave -110  
KPX Y uhungarumlaut -110  
KPX Y umacron -110  
KPX Y uogonek -110  
KPX Y uring -110  
KPX Yacute A -110  
KPX Yacute Aacute -110  
KPX Yacute Abreve -110  
KPX Yacute Acircumflex -110  
KPX Yacute Adieresis -110  
KPX Yacute Agrave -110  
KPX Yacute Amacron -110  
KPX Yacute Aogonek -110  
KPX Yacute Aring -110  
KPX Yacute Atilde -110  
KPX Yacute O -85  
KPX Yacute Oacute -85  
KPX Yacute Ocircumflex -85  
KPX Yacute Odieresis -85  
KPX Yacute Ograve -85  
KPX Yacute Ohungarumlaut -85  
KPX Yacute Omacron -85  
KPX Yacute Oslash -85  
KPX Yacute Otilde -85  
KPX Yacute a -140  
KPX Yacute aacute -140  
KPX Yacute abreve -70  
KPX Yacute acircumflex -140

KPX Yacute adieresis -140  
KPX Yacute agrave -140  
KPX Yacute amacron -70  
KPX Yacute aogonek -140  
KPX Yacute aring -140  
KPX Yacute atilde -70  
KPX Yacute colon -60  
KPX Yacute comma -140  
KPX Yacute e -140  
KPX Yacute eacute -140  
KPX Yacute ecaron -140  
KPX Yacute ecircumflex -140  
KPX Yacute edieresis -140  
KPX Yacute edotaccent -140  
KPX Yacute egrave -140  
KPX Yacute emacron -70  
KPX Yacute eogonek -140  
KPX Yacute hyphen -140  
KPX Yacute i -20  
KPX Yacute iacute -20  
KPX Yacute iogonek -20  
KPX Yacute o -140  
KPX Yacute oacute -140  
KPX Yacute ocircumflex -140  
KPX Yacute odieresis -140  
KPX Yacute ograve -140  
KPX Yacute ohungarumlaut -140  
KPX Yacute omacron -70  
KPX Yacute oslash -140  
KPX Yacute otilde -140  
KPX Yacute period -140  
KPX Yacute semicolon -60  
KPX Yacute u -110  
KPX Yacute uacute -110  
KPX Yacute ucircumflex -110  
KPX Yacute udieresis -110  
KPX Yacute ugrave -110  
KPX Yacute uhungarumlaut -110  
KPX Yacute umacron -110  
KPX Yacute uogonek -110  
KPX Yacute uring -110  
KPX Ydieresis A -110  
KPX Ydieresis Aacute -110  
KPX Ydieresis Abreve -110  
KPX Ydieresis Acircumflex -110  
KPX Ydieresis Adieresis -110  
KPX Ydieresis Agrave -110  
KPX Ydieresis Amacron -110

KPX Ydieresis Aogonek -110  
KPX Ydieresis Aring -110  
KPX Ydieresis Atilde -110  
KPX Ydieresis O -85  
KPX Ydieresis Oacute -85  
KPX Ydieresis Ocircumflex -85  
KPX Ydieresis Odieresis -85  
KPX Ydieresis Ograve -85  
KPX Ydieresis Ohungarumlaut -85  
KPX Ydieresis Omacron -85  
KPX Ydieresis Oslash -85  
KPX Ydieresis Otilde -85  
KPX Ydieresis a -140  
KPX Ydieresis aacute -140  
KPX Ydieresis abreve -70  
KPX Ydieresis acircumflex -140  
KPX Ydieresis adieresis -140  
KPX Ydieresis agrave -140  
KPX Ydieresis amacron -70  
KPX Ydieresis aogonek -140  
KPX Ydieresis aring -140  
KPX Ydieresis atilde -70  
KPX Ydieresis colon -60  
KPX Ydieresis comma -140  
KPX Ydieresis e -140  
KPX Ydieresis eacute -140  
KPX Ydieresis ecaron -140  
KPX Ydieresis ecircumflex -140  
KPX Ydieresis edieresis -140  
KPX Ydieresis edotaccent -140  
KPX Ydieresis egrave -140  
KPX Ydieresis emacron -70  
KPX Ydieresis eogonek -140  
KPX Ydieresis hyphen -140  
KPX Ydieresis i -20  
KPX Ydieresis iacute -20  
KPX Ydieresis iogonek -20  
KPX Ydieresis o -140  
KPX Ydieresis oacute -140  
KPX Ydieresis ocircumflex -140  
KPX Ydieresis odieresis -140  
KPX Ydieresis ograve -140  
KPX Ydieresis ohungarumlaut -140  
KPX Ydieresis omacron -140  
KPX Ydieresis oslash -140  
KPX Ydieresis otilde -140  
KPX Ydieresis period -140  
KPX Ydieresis semicolon -60

KPX Ydieresis u -110  
KPX Ydieresis uacute -110  
KPX Ydieresis ucircumflex -110  
KPX Ydieresis udieresis -110  
KPX Ydieresis ugrave -110  
KPX Ydieresis uhungarumlaut -110  
KPX Ydieresis umacron -110  
KPX Ydieresis uogonek -110  
KPX Ydieresis uring -110  
KPX a v -20  
KPX a w -20  
KPX a y -30  
KPX a yacute -30  
KPX a ydieresis -30  
KPX aacute v -20  
KPX aacute w -20  
KPX aacute y -30  
KPX aacute yacute -30  
KPX aacute ydieresis -30  
KPX abreve v -20  
KPX abreve w -20  
KPX abreve y -30  
KPX abreve yacute -30  
KPX abreve ydieresis -30  
KPX acircumflex v -20  
KPX acircumflex w -20  
KPX acircumflex y -30  
KPX acircumflex yacute -30  
KPX acircumflex ydieresis -30  
KPX adieresis v -20  
KPX adieresis w -20  
KPX adieresis y -30  
KPX adieresis yacute -30  
KPX adieresis ydieresis -30  
KPX agrave v -20  
KPX agrave w -20  
KPX agrave y -30  
KPX agrave yacute -30  
KPX agrave ydieresis -30  
KPX amacron v -20  
KPX amacron w -20  
KPX amacron y -30  
KPX amacron yacute -30  
KPX amacron ydieresis -30  
KPX aogonek v -20  
KPX aogonek w -20  
KPX aogonek y -30  
KPX aogonek yacute -30

KPX aogonek ydieresis -30  
KPX aring v -20  
KPX aring w -20  
KPX aring y -30  
KPX aring yacute -30  
KPX aring ydieresis -30  
KPX atilde v -20  
KPX atilde w -20  
KPX atilde y -30  
KPX atilde yacute -30  
KPX atilde ydieresis -30  
KPX b b -10  
KPX b comma -40  
KPX b l -20  
KPX b lacute -20  
KPX b lcommaaccent -20  
KPX b lslash -20  
KPX b period -40  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX b v -20  
KPX b y -20  
KPX b yacute -20  
KPX b ydieresis -20  
KPX c comma -15  
KPX c k -20  
KPX c kcommaaccent -20  
KPX cacute comma -15  
KPX cacute k -20  
KPX cacute kcommaaccent -20  
KPX ccaron comma -15  
KPX ccaron k -20  
KPX ccaron kcommaaccent -20  
KPX ccedilla comma -15  
KPX ccedilla k -20  
KPX ccedilla kcommaaccent -20  
KPX colon space -50  
KPX comma quotedblright -100  
KPX comma quoteright -100  
KPX e comma -15  
KPX e period -15

KPX e v -30  
KPX e w -20  
KPX e x -30  
KPX e y -20  
KPX e yacute -20  
KPX e ydieresis -20  
KPX eacute comma -15  
KPX eacute period -15  
KPX eacute v -30  
KPX eacute w -20  
KPX eacute x -30  
KPX eacute y -20  
KPX eacute yacute -20  
KPX eacute ydieresis -20  
KPX ecaron comma -15  
KPX ecaron period -15  
KPX ecaron v -30  
KPX ecaron w -20  
KPX ecaron x -30  
KPX ecaron y -20  
KPX ecaron yacute -20  
KPX ecaron ydieresis -20  
KPX ecircumflex comma -15  
KPX ecircumflex period -15  
KPX ecircumflex v -30  
KPX ecircumflex w -20  
KPX ecircumflex x -30  
KPX ecircumflex y -20  
KPX ecircumflex yacute -20  
KPX ecircumflex ydieresis -20  
KPX edieresis comma -15  
KPX edieresis period -15  
KPX edieresis v -30  
KPX edieresis w -20  
KPX edieresis x -30  
KPX edieresis y -20  
KPX edieresis yacute -20  
KPX edieresis ydieresis -20  
KPX edotaccent comma -15  
KPX edotaccent period -15  
KPX edotaccent v -30  
KPX edotaccent w -20  
KPX edotaccent x -30  
KPX edotaccent y -20  
KPX edotaccent yacute -20  
KPX edotaccent ydieresis -20  
KPX egrave comma -15  
KPX egrave period -15

KPX egrave v -30  
KPX egrave w -20  
KPX egrave x -30  
KPX egrave y -20  
KPX egrave yacute -20  
KPX egrave ydieresis -20  
KPX emacron comma -15  
KPX emacron period -15  
KPX emacron v -30  
KPX emacron w -20  
KPX emacron x -30  
KPX emacron y -20  
KPX emacron yacute -20  
KPX emacron ydieresis -20  
KPX eogonek comma -15  
KPX eogonek period -15  
KPX eogonek v -30  
KPX eogonek w -20  
KPX eogonek x -30  
KPX eogonek y -20  
KPX eogonek yacute -20  
KPX eogonek ydieresis -20  
KPX f a -30  
KPX f aacute -30  
KPX f abreve -30  
KPX f acircumflex -30  
KPX f adieresis -30  
KPX f agrave -30  
KPX f amacron -30  
KPX f aogonek -30  
KPX f aring -30  
KPX f atilde -30  
KPX f comma -30  
KPX f dotlessi -28  
KPX f e -30  
KPX f eacute -30  
KPX f ecaron -30  
KPX f ecircumflex -30  
KPX f edieresis -30  
KPX f edotaccent -30  
KPX f egrave -30  
KPX f emacron -30  
KPX f eogonek -30  
KPX f o -30  
KPX f oacute -30  
KPX f ocircumflex -30  
KPX f odieresis -30  
KPX f ograve -30



KPX f ohungarumlaut -30  
KPX f omacron -30  
KPX f oslash -30  
KPX f otilde -30  
KPX f period -30  
KPX f quotedblright 60  
KPX f quoteright 50  
KPX g r -10  
KPX g racute -10  
KPX g rcaron -10  
KPX g rcommaaccent -10  
KPX gbreve r -10  
KPX gbreve racute -10  
KPX gbreve rcaron -10  
KPX gbreve rcommaaccent -10  
KPX gcommaaccent r -10  
KPX gcommaaccent racute -10  
KPX gcommaaccent rcaron -10  
KPX gcommaaccent rcommaaccent -10  
KPX h y -30  
KPX h yacute -30  
KPX h ydieresis -30  
KPX k e -20  
KPX k eacute -20  
KPX k ecaron -20  
KPX k ecircumflex -20  
KPX k edieresis -20  
KPX k edotaccent -20  
KPX k egrave -20  
KPX k emacron -20  
KPX k eogonek -20  
KPX k o -20  
KPX k oacute -20  
KPX k ocircumflex -20  
KPX k odieresis -20  
KPX k ograve -20  
KPX k ohungarumlaut -20  
KPX k omacron -20  
KPX k oslash -20  
KPX k otilde -20  
KPX kcommaaccent e -20  
KPX kcommaaccent eacute -20  
KPX kcommaaccent ecaron -20  
KPX kcommaaccent ecircumflex -20  
KPX kcommaaccent edieresis -20  
KPX kcommaaccent edotaccent -20  
KPX kcommaaccent egrave -20  
KPX kcommaaccent emacron -20

KPX kcommaaccent eogonek -20  
KPX kcommaaccent o -20  
KPX kcommaaccent oacute -20  
KPX kcommaaccent ocircumflex -20  
KPX kcommaaccent odieresis -20  
KPX kcommaaccent ograve -20  
KPX kcommaaccent ohungarumlaut -20  
KPX kcommaaccent omacron -20  
KPX kcommaaccent oslash -20  
KPX kcommaaccent otilde -20  
KPX m u -10  
KPX m uacute -10  
KPX m ucircumflex -10  
KPX m udieresis -10  
KPX m ugrave -10  
KPX m uhungarumlaut -10  
KPX m umacron -10  
KPX m uogonek -10  
KPX m uring -10  
KPX m y -15  
KPX m yacute -15  
KPX m ydieresis -15  
KPX n u -10  
KPX n uacute -10  
KPX n ucircumflex -10  
KPX n udieresis -10  
KPX n ugrave -10  
KPX n uhungarumlaut -10  
KPX n umacron -10  
KPX n uogonek -10  
KPX n uring -10  
KPX n v -20  
KPX n y -15  
KPX n yacute -15  
KPX n ydieresis -15  
KPX nacute u -10  
KPX nacute uacute -10  
KPX nacute ucircumflex -10  
KPX nacute udieresis -10  
KPX nacute ugrave -10  
KPX nacute uhungarumlaut -10  
KPX nacute umacron -10  
KPX nacute uogonek -10  
KPX nacute uring -10  
KPX nacute v -20  
KPX nacute y -15  
KPX nacute yacute -15  
KPX nacute ydieresis -15

KPX ncaron u -10  
KPX ncaron uacute -10  
KPX ncaron ucircumflex -10  
KPX ncaron udieresis -10  
KPX ncaron ugrave -10  
KPX ncaron uhungarumlaut -10  
KPX ncaron umacron -10  
KPX ncaron uogonek -10  
KPX ncaron uring -10  
KPX ncaron v -20  
KPX ncaron y -15  
KPX ncaron yacute -15  
KPX ncaron ydieresis -15  
KPX ncommaaccent u -10  
KPX ncommaaccent uacute -10  
KPX ncommaaccent ucircumflex -10  
KPX ncommaaccent udieresis -10  
KPX ncommaaccent ugrave -10  
KPX ncommaaccent uhungarumlaut -10  
KPX ncommaaccent umacron -10  
KPX ncommaaccent uogonek -10  
KPX ncommaaccent uring -10  
KPX ncommaaccent v -20  
KPX ncommaaccent y -15  
KPX ncommaaccent yacute -15  
KPX ncommaaccent ydieresis -15  
KPX ntilde u -10  
KPX ntilde uacute -10  
KPX ntilde ucircumflex -10  
KPX ntilde udieresis -10  
KPX ntilde ugrave -10  
KPX ntilde uhungarumlaut -10  
KPX ntilde umacron -10  
KPX ntilde uogonek -10  
KPX ntilde uring -10  
KPX ntilde v -20  
KPX ntilde y -15  
KPX ntilde yacute -15  
KPX ntilde ydieresis -15  
KPX o comma -40  
KPX o period -40  
KPX o v -15  
KPX o w -15  
KPX o x -30  
KPX o y -30  
KPX o yacute -30  
KPX o ydieresis -30  
KPX oacute comma -40

KPX oacute period -40  
KPX oacute v -15  
KPX oacute w -15  
KPX oacute x -30  
KPX oacute y -30  
KPX oacute yacute -30  
KPX oacute ydieresis -30  
KPX ocircumflex comma -40  
KPX ocircumflex period -40  
KPX ocircumflex v -15  
KPX ocircumflex w -15  
KPX ocircumflex x -30  
KPX ocircumflex y -30  
KPX ocircumflex yacute -30  
KPX ocircumflex ydieresis -30  
KPX odieresis comma -40  
KPX odieresis period -40  
KPX odieresis v -15  
KPX odieresis w -15  
KPX odieresis x -30  
KPX odieresis y -30  
KPX odieresis yacute -30  
KPX odieresis ydieresis -30  
KPX ograve comma -40  
KPX ograve period -40  
KPX ograve v -15  
KPX ograve w -15  
KPX ograve x -30  
KPX ograve y -30  
KPX ograve yacute -30  
KPX ograve ydieresis -30  
KPX ohungarumlaut comma -40  
KPX ohungarumlaut period -40  
KPX ohungarumlaut v -15  
KPX ohungarumlaut w -15  
KPX ohungarumlaut x -30  
KPX ohungarumlaut y -30  
KPX ohungarumlaut yacute -30  
KPX ohungarumlaut ydieresis -30  
KPX omacron comma -40  
KPX omacron period -40  
KPX omacron v -15  
KPX omacron w -15  
KPX omacron x -30  
KPX omacron y -30  
KPX omacron yacute -30  
KPX omacron ydieresis -30  
KPX oslash a -55

KPX oslash aacute -55  
KPX oslash abreve -55  
KPX oslash acircumflex -55  
KPX oslash adieresis -55  
KPX oslash agrave -55  
KPX oslash amacron -55  
KPX oslash aogonek -55  
KPX oslash aring -55  
KPX oslash atilde -55  
KPX oslash b -55  
KPX oslash c -55  
KPX oslash cacute -55  
KPX oslash ccaron -55  
KPX oslash ccedilla -55  
KPX oslash comma -95  
KPX oslash d -55  
KPX oslash dcroat -55  
KPX oslash e -55  
KPX oslash eacute -55  
KPX oslash ecaron -55  
KPX oslash ecircumflex -55  
KPX oslash edieresis -55  
KPX oslash edotaccent -55  
KPX oslash egrave -55  
KPX oslash emacron -55  
KPX oslash eogonek -55  
KPX oslash f -55  
KPX oslash g -55  
KPX oslash gbreve -55  
KPX oslash gcommaaccent -55  
KPX oslash h -55  
KPX oslash i -55  
KPX oslash iacute -55  
KPX oslash icircumflex -55  
KPX oslash idieresis -55  
KPX oslash igrave -55  
KPX oslash imacron -55  
KPX oslash iogonek -55  
KPX oslash j -55  
KPX oslash k -55  
KPX oslash kcommaaccent -55  
KPX oslash l -55  
KPX oslash lacute -55  
KPX oslash lcommaaccent -55  
KPX oslash lslash -55  
KPX oslash m -55  
KPX oslash n -55  
KPX oslash nacute -55

KPX oslash ncaron -55  
KPX oslash ncommaaccent -55  
KPX oslash ntilde -55  
KPX oslash o -55  
KPX oslash oacute -55  
KPX oslash ocircumflex -55  
KPX oslash odieresis -55  
KPX oslash ograve -55  
KPX oslash ohungarumlaut -55  
KPX oslash omacron -55  
KPX oslash oslash -55  
KPX oslash otilde -55  
KPX oslash p -55  
KPX oslash period -95  
KPX oslash q -55  
KPX oslash r -55  
KPX oslash racute -55  
KPX oslash rcaron -55  
KPX oslash rcommaaccent -55  
KPX oslash s -55  
KPX oslash sacute -55  
KPX oslash scaron -55  
KPX oslash scedilla -55  
KPX oslash scommaaccent -55  
KPX oslash t -55  
KPX oslash tcommaaccent -55  
KPX oslash u -55  
KPX oslash uacute -55  
KPX oslash ucircumflex -55  
KPX oslash udieresis -55  
KPX oslash ugrave -55  
KPX oslash uhungarumlaut -55  
KPX oslash umacron -55  
KPX oslash uogonek -55  
KPX oslash uring -55  
KPX oslash v -70  
KPX oslash w -70  
KPX oslash x -85  
KPX oslash y -70  
KPX oslash yacute -70  
KPX oslash ydieresis -70  
KPX oslash z -55  
KPX oslash zacute -55  
KPX oslash zcaron -55  
KPX oslash zdotaccent -55  
KPX otilde comma -40  
KPX otilde period -40  
KPX otilde v -15

KPX otilde w -15  
KPX otilde x -30  
KPX otilde y -30  
KPX otilde yacute -30  
KPX otilde ydieresis -30  
KPX p comma -35  
KPX p period -35  
KPX p y -30  
KPX p yacute -30  
KPX p ydieresis -30  
KPX period quotedblright -100  
KPX period quoteright -100  
KPX period space -60  
KPX quotedblright space -40  
KPX quoteleft quoteleft -57  
KPX quoteright d -50  
KPX quoteright dcroat -50  
KPX quoteright quoteright -57  
KPX quoteright r -50  
KPX quoteright racute -50  
KPX quoteright rcaron -50  
KPX quoteright rcommaaccent -50  
KPX quoteright s -50  
KPX quoteright sacute -50  
KPX quoteright scaron -50  
KPX quoteright scedilla -50  
KPX quoteright scommaaccent -50  
KPX quoteright space -70  
KPX r a -10  
KPX r aacute -10  
KPX r abreve -10  
KPX r acircumflex -10  
KPX r adieresis -10  
KPX r agrave -10  
KPX r amacron -10  
KPX r aogonek -10  
KPX r aring -10  
KPX r atilde -10  
KPX r colon 30  
KPX r comma -50  
KPX r i 15  
KPX r iacute 15  
KPX r icircumflex 15  
KPX r idieresis 15  
KPX r igrave 15  
KPX r imacron 15  
KPX r iogonek 15  
KPX r k 15

KPX r kcommaaccent 15  
KPX r l 15  
KPX r lacute 15  
KPX r lcommaaccent 15  
KPX r lslash 15  
KPX r m 25  
KPX r n 25  
KPX r nacute 25  
KPX r ncaron 25  
KPX r ncommaaccent 25  
KPX r ntilde 25  
KPX r p 30  
KPX r period -50  
KPX r semicolon 30  
KPX r t 40  
KPX r tcommaaccent 40  
KPX r u 15  
KPX r uacute 15  
KPX r ucircumflex 15  
KPX r udieresis 15  
KPX r ugrave 15  
KPX r uhungarumlaut 15  
KPX r umacron 15  
KPX r uogonek 15  
KPX r uring 15  
KPX r v 30  
KPX r y 30  
KPX r yacute 30  
KPX r ydieresis 30  
KPX racute a -10  
KPX racute aacute -10  
KPX racute abreve -10  
KPX racute acircumflex -10  
KPX racute adieresis -10  
KPX racute agrave -10  
KPX racute amacron -10  
KPX racute aogonek -10  
KPX racute aring -10  
KPX racute atilde -10  
KPX racute colon 30  
KPX racute comma -50  
KPX racute i 15  
KPX racute iacute 15  
KPX racute icircumflex 15  
KPX racute idieresis 15  
KPX racute igrave 15  
KPX racute imacron 15  
KPX racute iogonek 15



KPX racute k 15  
KPX racute kcommaaccent 15  
KPX racute l 15  
KPX racute lacute 15  
KPX racute lcommaaccent 15  
KPX racute lslash 15  
KPX racute m 25  
KPX racute n 25  
KPX racute nacute 25  
KPX racute ncaron 25  
KPX racute ncommaaccent 25  
KPX racute ntilde 25  
KPX racute p 30  
KPX racute period -50  
KPX racute semicolon 30  
KPX racute t 40  
KPX racute tcommaaccent 40  
KPX racute u 15  
KPX racute uacute 15  
KPX racute ucircumflex 15  
KPX racute udieresis 15  
KPX racute ugrave 15  
KPX racute uhungarumlaut 15  
KPX racute umacron 15  
KPX racute uogonek 15  
KPX racute uring 15  
KPX racute v 30  
KPX racute y 30  
KPX racute yacute 30  
KPX racute ydieresis 30  
KPX rcaron a -10  
KPX rcaron aacute -10  
KPX rcaron abreve -10  
KPX rcaron acircumflex -10  
KPX rcaron adieresis -10  
KPX rcaron agrave -10  
KPX rcaron amacron -10  
KPX rcaron aogonek -10  
KPX rcaron aring -10  
KPX rcaron atilde -10  
KPX rcaron colon 30  
KPX rcaron comma -50  
KPX rcaron i 15  
KPX rcaron iacute 15  
KPX rcaron icircumflex 15  
KPX rcaron idieresis 15  
KPX rcaron igrave 15  
KPX rcaron imacron 15

KPX rcaron iogonek 15  
KPx rcaron k 15  
KPx rcaron kcommaaccent 15  
KPx rcaron l 15  
KPx rcaron lacute 15  
KPx rcaron lcommaaccent 15  
KPx rcaron lslash 15  
KPx rcaron m 25  
KPx rcaron n 25  
KPx rcaron nacute 25  
KPx rcaron ncaron 25  
KPx rcaron ncommaaccent 25  
KPx rcaron ntilde 25  
KPx rcaron p 30  
KPx rcaron period -50  
KPx rcaron semicolon 30  
KPx rcaron t 40  
KPx rcaron tcommaaccent 40  
KPx rcaron u 15  
KPx rcaron uacute 15  
KPx rcaron ucircumflex 15  
KPx rcaron udieresis 15  
KPx rcaron ugrave 15  
KPx rcaron uhungarumlaut 15  
KPx rcaron umacron 15  
KPx rcaron uogonek 15  
KPx rcaron uring 15  
KPx rcaron v 30  
KPx rcaron y 30  
KPx rcaron yacute 30  
KPx rcaron ydieresis 30  
KPx rcommaaccent a -10  
KPx rcommaaccent aacute -10  
KPx rcommaaccent abreve -10  
KPx rcommaaccent acircumflex -10  
KPx rcommaaccent adieresis -10  
KPx rcommaaccent agrave -10  
KPx rcommaaccent amacron -10  
KPx rcommaaccent aogonek -10  
KPx rcommaaccent aring -10  
KPx rcommaaccent atilde -10  
KPx rcommaaccent colon 30  
KPx rcommaaccent comma -50  
KPx rcommaaccent i 15  
KPx rcommaaccent iacute 15  
KPx rcommaaccent icircumflex 15  
KPx rcommaaccent idieresis 15  
KPx rcommaaccent igrave 15

KPX rcommaaccent imacron 15  
KPX rcommaaccent iogonek 15  
KPX rcommaaccent k 15  
KPX rcommaaccent kcommaaccent 15  
KPX rcommaaccent l 15  
KPX rcommaaccent lacute 15  
KPX rcommaaccent lcommaaccent 15  
KPX rcommaaccent lslash 15  
KPX rcommaaccent m 25  
KPX rcommaaccent n 25  
KPX rcommaaccent nacute 25  
KPX rcommaaccent ncaron 25  
KPX rcommaaccent ncommaaccent 25  
KPX rcommaaccent ntilde 25  
KPX rcommaaccent p 30  
KPX rcommaaccent period -50  
KPX rcommaaccent semicolon 30  
KPX rcommaaccent t 40  
KPX rcommaaccent tcommaaccent 40  
KPX rcommaaccent u 15  
KPX rcommaaccent uacute 15  
KPX rcommaaccent ucircumflex 15  
KPX rcommaaccent udieresis 15  
KPX rcommaaccent ugrave 15  
KPX rcommaaccent uhungarumlaut 15  
KPX rcommaaccent umacron 15  
KPX rcommaaccent uogonek 15  
KPX rcommaaccent uring 15  
KPX rcommaaccent v 30  
KPX rcommaaccent y 30  
KPX rcommaaccent yacute 30  
KPX rcommaaccent ydieresis 30  
KPX s comma -15  
KPX s period -15  
KPX s w -30  
KPX sacute comma -15  
KPX sacute period -15  
KPX sacute w -30  
KPX scaron comma -15  
KPX scaron period -15  
KPX scaron w -30  
KPX scedilla comma -15  
KPX scedilla period -15  
KPX scedilla w -30  
KPX scommaaccent comma -15  
KPX scommaaccent period -15  
KPX scommaaccent w -30  
KPX semicolon space -50

KPX space T -50  
KPX space Tcaron -50  
KPX space Tcommaaccent -50  
KPX space V -50  
KPX space W -40  
KPX space Y -90  
KPX space Yacute -90  
KPX space Ydieresis -90  
KPX space quotedblleft -30  
KPX space quoteleft -60  
KPX v a -25  
KPX v acute -25  
KPX v abreve -25  
KPX v acircumflex -25  
KPX v adieresis -25  
KPX v agrave -25  
KPX v amacron -25  
KPX v aogonek -25  
KPX v aring -25  
KPX v atilde -25  
KPX v comma -80  
KPX v e -25  
KPX v eacute -25  
KPX v ecaron -25  
KPX v ecircumflex -25  
KPX v edieresis -25  
KPX v edotaccent -25  
KPX v egrave -25  
KPX v emacron -25  
KPX v eogonek -25  
KPX v o -25  
KPX v oacute -25  
KPX v ocircumflex -25  
KPX v odieresis -25  
KPX v ograve -25  
KPX v ohungarumlaut -25  
KPX v omacron -25  
KPX v oslash -25  
KPX v otilde -25  
KPX v period -80  
KPX w a -15  
KPX w acute -15  
KPX w abreve -15  
KPX w acircumflex -15  
KPX w adieresis -15  
KPX w agrave -15  
KPX w amacron -15  
KPX w aogonek -15

KPX w aring -15  
KPX w atilde -15  
KPX w comma -60  
KPX w e -10  
KPX w eacute -10  
KPX w ecaron -10  
KPX w ecircumflex -10  
KPX w edieresis -10  
KPX w edotaccent -10  
KPX w egrave -10  
KPX w emacron -10  
KPX w eogonek -10  
KPX w o -10  
KPX w oacute -10  
KPX w ocircumflex -10  
KPX w odieresis -10  
KPX w ograve -10  
KPX w ohungarumlaut -10  
KPX w omacron -10  
KPX w oslash -10  
KPX w otilde -10  
KPX w period -60  
KPX x e -30  
KPX x eacute -30  
KPX x ecaron -30  
KPX x ecircumflex -30  
KPX x edieresis -30  
KPX x edotaccent -30  
KPX x egrave -30  
KPX x emacron -30  
KPX x eogonek -30  
KPX y a -20  
KPX y aacute -20  
KPX y abreve -20  
KPX y acircumflex -20  
KPX y adieresis -20  
KPX y agrave -20  
KPX y amacron -20  
KPX y aogonek -20  
KPX y aring -20  
KPX y atilde -20  
KPX y comma -100  
KPX y e -20  
KPX y eacute -20  
KPX y ecaron -20  
KPX y ecircumflex -20  
KPX y edieresis -20  
KPX y edotaccent -20

KPX y egrave -20  
KPX y emacron -20  
KPX y eogonek -20  
KPX y o -20  
KPX y oacute -20  
KPX y ocircumflex -20  
KPX y odieresis -20  
KPX y ograve -20  
KPX y ohungarumlaut -20  
KPX y omacron -20  
KPX y oslash -20  
KPX y otilde -20  
KPX y period -100  
KPX yacute a -20  
KPX yacute aacute -20  
KPX yacute abreve -20  
KPX yacute acircumflex -20  
KPX yacute adieresis -20  
KPX yacute agrave -20  
KPX yacute amacron -20  
KPX yacute aogonek -20  
KPX yacute aring -20  
KPX yacute atilde -20  
KPX yacute comma -100  
KPX yacute e -20  
KPX yacute eacute -20  
KPX yacute ecaron -20  
KPX yacute ecircumflex -20  
KPX yacute edieresis -20  
KPX yacute edotaccent -20  
KPX yacute egrave -20  
KPX yacute emacron -20  
KPX yacute eogonek -20  
KPX yacute o -20  
KPX yacute oacute -20  
KPX yacute ocircumflex -20  
KPX yacute odieresis -20  
KPX yacute ograve -20  
KPX yacute ohungarumlaut -20  
KPX yacute omacron -20  
KPX yacute oslash -20  
KPX yacute otilde -20  
KPX yacute period -100  
KPX ydieresis a -20  
KPX ydieresis aacute -20  
KPX ydieresis abreve -20  
KPX ydieresis acircumflex -20  
KPX ydieresis adieresis -20

KPX ydieresis agrave -20  
KPX ydieresis amacron -20  
KPX ydieresis aogonek -20  
KPX ydieresis aring -20  
KPX ydieresis atilde -20  
KPX ydieresis comma -100  
KPX ydieresis e -20  
KPX ydieresis eacute -20  
KPX ydieresis ecaron -20  
KPX ydieresis ecircumflex -20  
KPX ydieresis edieresis -20  
KPX ydieresis edotaccent -20  
KPX ydieresis egrave -20  
KPX ydieresis emacron -20  
KPX ydieresis eogonek -20  
KPX ydieresis o -20  
KPX ydieresis oacute -20  
KPX ydieresis ocircumflex -20  
KPX ydieresis odieresis -20  
KPX ydieresis ograve -20  
KPX ydieresis ohungarumlaut -20  
KPX ydieresis omacron -20  
KPX ydieresis oslash -20  
KPX ydieresis otilde -20  
KPX ydieresis period -100  
KPX z e -15  
KPX z eacute -15  
KPX z ecaron -15  
KPX z ecircumflex -15  
KPX z edieresis -15  
KPX z edotaccent -15  
KPX z egrave -15  
KPX z emacron -15  
KPX z eogonek -15  
KPX z o -15  
KPX z oacute -15  
KPX z ocircumflex -15  
KPX z odieresis -15  
KPX z ograve -15  
KPX z ohungarumlaut -15  
KPX z omacron -15  
KPX z oslash -15  
KPX z otilde -15  
KPX zacute e -15  
KPX zacute eacute -15  
KPX zacute ecaron -15  
KPX zacute ecircumflex -15  
KPX zacute edieresis -15

KPX zacute edotaccent -15  
KPX zacute egrave -15  
KPX zacute emacron -15  
KPX zacute eogonek -15  
KPX zacute o -15  
KPX zacute oacute -15  
KPX zacute ocircumflex -15  
KPX zacute odieresis -15  
KPX zacute ograve -15  
KPX zacute ohungarumlaut -15  
KPX zacute omacron -15  
KPX zacute oslash -15  
KPX zacute otilde -15  
KPX zcaron e -15  
KPX zcaron eacute -15  
KPX zcaron ecaron -15  
KPX zcaron ecircumflex -15  
KPX zcaron edieresis -15  
KPX zcaron edotaccent -15  
KPX zcaron egrave -15  
KPX zcaron emacron -15  
KPX zcaron eogonek -15  
KPX zcaron o -15  
KPX zcaron oacute -15  
KPX zcaron ocircumflex -15  
KPX zcaron odieresis -15  
KPX zcaron ograve -15  
KPX zcaron ohungarumlaut -15  
KPX zcaron omacron -15  
KPX zcaron oslash -15  
KPX zcaron otilde -15  
KPX zdotaccent e -15  
KPX zdotaccent eacute -15  
KPX zdotaccent ecaron -15  
KPX zdotaccent ecircumflex -15  
KPX zdotaccent edieresis -15  
KPX zdotaccent edotaccent -15  
KPX zdotaccent egrave -15  
KPX zdotaccent emacron -15  
KPX zdotaccent eogonek -15  
KPX zdotaccent o -15  
KPX zdotaccent oacute -15  
KPX zdotaccent ocircumflex -15  
KPX zdotaccent odieresis -15  
KPX zdotaccent ograve -15  
KPX zdotaccent ohungarumlaut -15  
KPX zdotaccent omacron -15  
KPX zdotaccent oslash -15



KPX zdotaccent otilde -15  
EndKernPairs  
EndKernData  
EndFontMetrics  
Font Metrics for the 14 PDF Core Fonts

=====  
This directory contains font metrics for the 14 PDF Core Fonts,  
downloaded from Adobe. The title and this paragraph were added by  
Matplotlib developers. The download URL was  
<<http://partners.adobe.com/public/developer/font/index.html>>.

This file and the 14 PostScript(R) AFM files it accompanies may be used, copied,  
and distributed for any purpose and without charge, with or without modification,  
provided that all copyright notices are retained; that the AFM files are not  
distributed without this file; that all modifications to this file or any of  
the AFM files are prominently noted in the modified file(s); and that this  
paragraph is not modified. Adobe Systems has no responsibility or obligation  
to support the use of the AFM files.

StartFontMetrics 4.1

Comment Copyright (c) 1989, 1990, 1991, 1992, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 17:27:09 1997

Comment UniqueID 43050

Comment VMusage 39754 50779

FontName Courier

FullName Courier

FamilyName Courier

Weight Medium

ItalicAngle 0

IsFixedPitch true

CharacterSet ExtendedRoman

FontBBox -23 -250 715 805

UnderlinePosition -100

UnderlineThickness 50

Version 003.000

Notice Copyright (c) 1989, 1990, 1991, 1992, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 426

Ascender 629

Descender -157

StdHW 51

StdVW 51

StartCharMetrics 315

C 32 ; WX 600 ; N space ; B 0 0 0 0 ;

C 33 ; WX 600 ; N exclam ; B 236 -15 364 572 ;

C 34 ; WX 600 ; N quotedbl ; B 187 328 413 562 ;

C 35 ; WX 600 ; N numbersign ; B 93 -32 507 639 ;

C 36 ; WX 600 ; N dollar ; B 105 -126 496 662 ;  
C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;  
C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;  
C 39 ; WX 600 ; N quoteright ; B 213 328 376 562 ;  
C 40 ; WX 600 ; N parenleft ; B 269 -108 440 622 ;  
C 41 ; WX 600 ; N parenright ; B 160 -108 331 622 ;  
C 42 ; WX 600 ; N asterisk ; B 116 257 484 607 ;  
C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;  
C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;  
C 45 ; WX 600 ; N hyphen ; B 103 231 497 285 ;  
C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;  
C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;  
C 48 ; WX 600 ; N zero ; B 106 -15 494 622 ;  
C 49 ; WX 600 ; N one ; B 96 0 505 622 ;  
C 50 ; WX 600 ; N two ; B 70 0 471 622 ;  
C 51 ; WX 600 ; N three ; B 75 -15 466 622 ;  
C 52 ; WX 600 ; N four ; B 78 0 500 622 ;  
C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;  
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;  
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;  
C 56 ; WX 600 ; N eight ; B 102 -15 498 622 ;  
C 57 ; WX 600 ; N nine ; B 96 -15 489 622 ;  
C 58 ; WX 600 ; N colon ; B 229 -15 371 385 ;  
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;  
C 60 ; WX 600 ; N less ; B 41 42 519 472 ;  
C 61 ; WX 600 ; N equal ; B 80 138 520 376 ;  
C 62 ; WX 600 ; N greater ; B 66 42 544 472 ;  
C 63 ; WX 600 ; N question ; B 129 -15 492 572 ;  
C 64 ; WX 600 ; N at ; B 77 -15 533 622 ;  
C 65 ; WX 600 ; N A ; B 3 0 597 562 ;  
C 66 ; WX 600 ; N B ; B 43 0 559 562 ;  
C 67 ; WX 600 ; N C ; B 41 -18 540 580 ;  
C 68 ; WX 600 ; N D ; B 43 0 574 562 ;  
C 69 ; WX 600 ; N E ; B 53 0 550 562 ;  
C 70 ; WX 600 ; N F ; B 53 0 545 562 ;  
C 71 ; WX 600 ; N G ; B 31 -18 575 580 ;  
C 72 ; WX 600 ; N H ; B 32 0 568 562 ;  
C 73 ; WX 600 ; N I ; B 96 0 504 562 ;  
C 74 ; WX 600 ; N J ; B 34 -18 566 562 ;  
C 75 ; WX 600 ; N K ; B 38 0 582 562 ;  
C 76 ; WX 600 ; N L ; B 47 0 554 562 ;  
C 77 ; WX 600 ; N M ; B 4 0 596 562 ;  
C 78 ; WX 600 ; N N ; B 7 -13 593 562 ;  
C 79 ; WX 600 ; N O ; B 43 -18 557 580 ;  
C 80 ; WX 600 ; N P ; B 79 0 558 562 ;  
C 81 ; WX 600 ; N Q ; B 43 -138 557 580 ;  
C 82 ; WX 600 ; N R ; B 38 0 588 562 ;  
C 83 ; WX 600 ; N S ; B 72 -20 529 580 ;

C 84 ; WX 600 ; N T ; B 38 0 563 562 ;  
C 85 ; WX 600 ; N U ; B 17 -18 583 562 ;  
C 86 ; WX 600 ; N V ; B -4 -13 604 562 ;  
C 87 ; WX 600 ; N W ; B -3 -13 603 562 ;  
C 88 ; WX 600 ; N X ; B 23 0 577 562 ;  
C 89 ; WX 600 ; N Y ; B 24 0 576 562 ;  
C 90 ; WX 600 ; N Z ; B 86 0 514 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 269 -108 442 622 ;  
C 92 ; WX 600 ; N backslash ; B 118 -80 482 629 ;  
C 93 ; WX 600 ; N bracketright ; B 158 -108 331 622 ;  
C 94 ; WX 600 ; N asciicircum ; B 94 354 506 622 ;  
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 224 328 387 562 ;  
C 97 ; WX 600 ; N a ; B 53 -15 559 441 ;  
C 98 ; WX 600 ; N b ; B 14 -15 575 629 ;  
C 99 ; WX 600 ; N c ; B 66 -15 529 441 ;  
C 100 ; WX 600 ; N d ; B 45 -15 591 629 ;  
C 101 ; WX 600 ; N e ; B 66 -15 548 441 ;  
C 102 ; WX 600 ; N f ; B 114 0 531 629 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 45 -157 566 441 ;  
C 104 ; WX 600 ; N h ; B 18 0 582 629 ;  
C 105 ; WX 600 ; N i ; B 95 0 505 657 ;  
C 106 ; WX 600 ; N j ; B 82 -157 410 657 ;  
C 107 ; WX 600 ; N k ; B 43 0 580 629 ;  
C 108 ; WX 600 ; N l ; B 95 0 505 629 ;  
C 109 ; WX 600 ; N m ; B -5 0 605 441 ;  
C 110 ; WX 600 ; N n ; B 26 0 575 441 ;  
C 111 ; WX 600 ; N o ; B 62 -15 538 441 ;  
C 112 ; WX 600 ; N p ; B 9 -157 555 441 ;  
C 113 ; WX 600 ; N q ; B 45 -157 591 441 ;  
C 114 ; WX 600 ; N r ; B 60 0 559 441 ;  
C 115 ; WX 600 ; N s ; B 80 -15 513 441 ;  
C 116 ; WX 600 ; N t ; B 87 -15 530 561 ;  
C 117 ; WX 600 ; N u ; B 21 -15 562 426 ;  
C 118 ; WX 600 ; N v ; B 10 -10 590 426 ;  
C 119 ; WX 600 ; N w ; B -4 -10 604 426 ;  
C 120 ; WX 600 ; N x ; B 20 0 580 426 ;  
C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;  
C 122 ; WX 600 ; N z ; B 99 0 502 426 ;  
C 123 ; WX 600 ; N braceleft ; B 182 -108 437 622 ;  
C 124 ; WX 600 ; N bar ; B 275 -250 326 750 ;  
C 125 ; WX 600 ; N braceright ; B 163 -108 418 622 ;  
C 126 ; WX 600 ; N asciitilde ; B 63 197 540 320 ;  
C 161 ; WX 600 ; N exclamdown ; B 236 -157 364 430 ;  
C 162 ; WX 600 ; N cent ; B 96 -49 500 614 ;  
C 163 ; WX 600 ; N sterling ; B 84 -21 521 611 ;  
C 164 ; WX 600 ; N fraction ; B 92 -57 509 665 ;  
C 165 ; WX 600 ; N yen ; B 26 0 574 562 ;

C 166 ; WX 600 ; N florin ; B 4 -143 539 622 ;  
C 167 ; WX 600 ; N section ; B 113 -78 488 580 ;  
C 168 ; WX 600 ; N currency ; B 73 58 527 506 ;  
C 169 ; WX 600 ; N quotesingle ; B 259 328 341 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 143 328 471 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 37 70 563 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 149 70 451 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 149 70 451 446 ;  
C 174 ; WX 600 ; N fi ; B 3 0 597 629 ;  
C 175 ; WX 600 ; N fl ; B 3 0 597 629 ;  
C 177 ; WX 600 ; N endash ; B 75 231 525 285 ;  
C 178 ; WX 600 ; N dagger ; B 141 -78 459 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 141 -78 459 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 222 189 378 327 ;  
C 182 ; WX 600 ; N paragraph ; B 50 -78 511 562 ;  
C 183 ; WX 600 ; N bullet ; B 172 130 428 383 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 213 -134 376 100 ;  
C 185 ; WX 600 ; N quotedblbase ; B 143 -134 457 100 ;  
C 186 ; WX 600 ; N quotedblright ; B 143 328 457 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 37 70 563 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 37 -15 563 111 ;  
C 189 ; WX 600 ; N perthousand ; B 3 -15 600 622 ;  
C 191 ; WX 600 ; N questiondown ; B 108 -157 471 430 ;  
C 193 ; WX 600 ; N grave ; B 151 497 378 672 ;  
C 194 ; WX 600 ; N acute ; B 242 497 469 672 ;  
C 195 ; WX 600 ; N circumflex ; B 124 477 476 654 ;  
C 196 ; WX 600 ; N tilde ; B 105 489 503 606 ;  
C 197 ; WX 600 ; N macron ; B 120 525 480 565 ;  
C 198 ; WX 600 ; N breve ; B 153 501 447 609 ;  
C 199 ; WX 600 ; N dotaccent ; B 249 537 352 640 ;  
C 200 ; WX 600 ; N dieresis ; B 148 537 453 640 ;  
C 202 ; WX 600 ; N ring ; B 218 463 382 627 ;  
C 203 ; WX 600 ; N cedilla ; B 224 -151 362 10 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 133 497 540 672 ;  
C 206 ; WX 600 ; N ogonek ; B 211 -172 407 4 ;  
C 207 ; WX 600 ; N caron ; B 124 492 476 669 ;  
C 208 ; WX 600 ; N emdash ; B 0 231 600 285 ;  
C 225 ; WX 600 ; N AE ; B 3 0 550 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 156 249 442 580 ;  
C 232 ; WX 600 ; N Lslash ; B 47 0 554 562 ;  
C 233 ; WX 600 ; N Oslash ; B 43 -80 557 629 ;  
C 234 ; WX 600 ; N OE ; B 7 0 567 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 157 249 443 580 ;  
C 241 ; WX 600 ; N ae ; B 19 -15 570 441 ;  
C 245 ; WX 600 ; N dotlessi ; B 95 0 505 426 ;  
C 248 ; WX 600 ; N lslash ; B 95 0 505 629 ;  
C 249 ; WX 600 ; N oslash ; B 62 -80 538 506 ;  
C 250 ; WX 600 ; N oe ; B 19 -15 559 441 ;

C 251 ; WX 600 ; N germandbls ; B 48 -15 588 629 ;  
C -1 ; WX 600 ; N Idieresis ; B 96 0 504 753 ;  
C -1 ; WX 600 ; N eacute ; B 66 -15 548 672 ;  
C -1 ; WX 600 ; N abreve ; B 53 -15 559 609 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B 21 -15 580 672 ;  
C -1 ; WX 600 ; N ecaron ; B 66 -15 548 669 ;  
C -1 ; WX 600 ; N Ydieresis ; B 24 0 576 753 ;  
C -1 ; WX 600 ; N divide ; B 87 48 513 467 ;  
C -1 ; WX 600 ; N Yacute ; B 24 0 576 805 ;  
C -1 ; WX 600 ; N Acircumflex ; B 3 0 597 787 ;  
C -1 ; WX 600 ; N aacute ; B 53 -15 559 672 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 17 -18 583 787 ;  
C -1 ; WX 600 ; N yacute ; B 7 -157 592 672 ;  
C -1 ; WX 600 ; N scommaaccent ; B 80 -250 513 441 ;  
C -1 ; WX 600 ; N ecircumflex ; B 66 -15 548 654 ;  
C -1 ; WX 600 ; N Uring ; B 17 -18 583 760 ;  
C -1 ; WX 600 ; N Udieresis ; B 17 -18 583 753 ;  
C -1 ; WX 600 ; N aogonek ; B 53 -172 587 441 ;  
C -1 ; WX 600 ; N Uacute ; B 17 -18 583 805 ;  
C -1 ; WX 600 ; N uogonek ; B 21 -172 590 426 ;  
C -1 ; WX 600 ; N Edieresis ; B 53 0 550 753 ;  
C -1 ; WX 600 ; N Dcroat ; B 30 0 574 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 198 -250 335 -58 ;  
C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N Emacron ; B 53 0 550 698 ;  
C -1 ; WX 600 ; N ccaron ; B 66 -15 529 669 ;  
C -1 ; WX 600 ; N aring ; B 53 -15 559 627 ;  
C -1 ; WX 600 ; N Ncommaaccent ; B 7 -250 593 562 ;  
C -1 ; WX 600 ; N lacute ; B 95 0 505 805 ;  
C -1 ; WX 600 ; N agrave ; B 53 -15 559 672 ;  
C -1 ; WX 600 ; N Tcommaaccent ; B 38 -250 563 562 ;  
C -1 ; WX 600 ; N Cacute ; B 41 -18 540 805 ;  
C -1 ; WX 600 ; N atilde ; B 53 -15 559 606 ;  
C -1 ; WX 600 ; N Edotaccent ; B 53 0 550 753 ;  
C -1 ; WX 600 ; N scaron ; B 80 -15 513 669 ;  
C -1 ; WX 600 ; N scedilla ; B 80 -151 513 441 ;  
C -1 ; WX 600 ; N iacute ; B 95 0 505 672 ;  
C -1 ; WX 600 ; N lozenge ; B 18 0 443 706 ;  
C -1 ; WX 600 ; N Rcaron ; B 38 0 588 802 ;  
C -1 ; WX 600 ; N Gcommaaccent ; B 31 -250 575 580 ;  
C -1 ; WX 600 ; N ucircumflex ; B 21 -15 562 654 ;  
C -1 ; WX 600 ; N acircumflex ; B 53 -15 559 654 ;  
C -1 ; WX 600 ; N Amacron ; B 3 0 597 698 ;  
C -1 ; WX 600 ; N rcaron ; B 60 0 559 669 ;  
C -1 ; WX 600 ; N ccedilla ; B 66 -151 529 441 ;  
C -1 ; WX 600 ; N Zdotaccent ; B 86 0 514 753 ;  
C -1 ; WX 600 ; N Thorn ; B 79 0 538 562 ;  
C -1 ; WX 600 ; N Omacron ; B 43 -18 557 698 ;

C -1 ; WX 600 ; N Racute ; B 38 0 588 805 ;  
C -1 ; WX 600 ; N Sacute ; B 72 -20 529 805 ;  
C -1 ; WX 600 ; N dcaron ; B 45 -15 715 629 ;  
C -1 ; WX 600 ; N Umacron ; B 17 -18 583 698 ;  
C -1 ; WX 600 ; N uring ; B 21 -15 562 627 ;  
C -1 ; WX 600 ; N threesuperior ; B 155 240 406 622 ;  
C -1 ; WX 600 ; N Ograve ; B 43 -18 557 805 ;  
C -1 ; WX 600 ; N Agrave ; B 3 0 597 805 ;  
C -1 ; WX 600 ; N Abreve ; B 3 0 597 732 ;  
C -1 ; WX 600 ; N multiply ; B 87 43 515 470 ;  
C -1 ; WX 600 ; N uacute ; B 21 -15 562 672 ;  
C -1 ; WX 600 ; N Tcaron ; B 38 0 563 802 ;  
C -1 ; WX 600 ; N partialdiff ; B 17 -38 459 710 ;  
C -1 ; WX 600 ; N ydieresis ; B 7 -157 592 620 ;  
C -1 ; WX 600 ; N Nacute ; B 7 -13 593 805 ;  
C -1 ; WX 600 ; N icircumflex ; B 94 0 505 654 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 53 0 550 787 ;  
C -1 ; WX 600 ; N adieresis ; B 53 -15 559 620 ;  
C -1 ; WX 600 ; N edieresis ; B 66 -15 548 620 ;  
C -1 ; WX 600 ; N cacute ; B 66 -15 529 672 ;  
C -1 ; WX 600 ; N nacute ; B 26 0 575 672 ;  
C -1 ; WX 600 ; N umacron ; B 21 -15 562 565 ;  
C -1 ; WX 600 ; N Ncaron ; B 7 -13 593 802 ;  
C -1 ; WX 600 ; N Iacute ; B 96 0 504 805 ;  
C -1 ; WX 600 ; N plusminus ; B 87 44 513 558 ;  
C -1 ; WX 600 ; N brokenbar ; B 275 -175 326 675 ;  
C -1 ; WX 600 ; N registered ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N Gbreve ; B 31 -18 575 732 ;  
C -1 ; WX 600 ; N Idotaccent ; B 96 0 504 753 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;  
C -1 ; WX 600 ; N Egrave ; B 53 0 550 805 ;  
C -1 ; WX 600 ; N racute ; B 60 0 559 672 ;  
C -1 ; WX 600 ; N omacron ; B 62 -15 538 565 ;  
C -1 ; WX 600 ; N Zacute ; B 86 0 514 805 ;  
C -1 ; WX 600 ; N Zcaron ; B 86 0 514 802 ;  
C -1 ; WX 600 ; N greaterequal ; B 98 0 502 710 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 574 562 ;  
C -1 ; WX 600 ; N Ccedilla ; B 41 -151 540 580 ;  
C -1 ; WX 600 ; N lcommaaccent ; B 95 -250 505 629 ;  
C -1 ; WX 600 ; N tcaron ; B 87 -15 530 717 ;  
C -1 ; WX 600 ; N eogonek ; B 66 -172 548 441 ;  
C -1 ; WX 600 ; N Uogonek ; B 17 -172 583 562 ;  
C -1 ; WX 600 ; N Aacute ; B 3 0 597 805 ;  
C -1 ; WX 600 ; N Adieresis ; B 3 0 597 753 ;  
C -1 ; WX 600 ; N egrave ; B 66 -15 548 672 ;  
C -1 ; WX 600 ; N zacute ; B 99 0 502 672 ;  
C -1 ; WX 600 ; N iogonek ; B 95 -172 505 657 ;  
C -1 ; WX 600 ; N Oacute ; B 43 -18 557 805 ;

C -1 ; WX 600 ; N oacute ; B 62 -15 538 672 ;  
C -1 ; WX 600 ; N amacron ; B 53 -15 559 565 ;  
C -1 ; WX 600 ; N sacute ; B 80 -15 513 672 ;  
C -1 ; WX 600 ; N idieresis ; B 95 0 505 620 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 43 -18 557 787 ;  
C -1 ; WX 600 ; N Ugrave ; B 17 -18 583 805 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 598 688 ;  
C -1 ; WX 600 ; N thorn ; B -6 -157 555 629 ;  
C -1 ; WX 600 ; N twosuperior ; B 177 249 424 622 ;  
C -1 ; WX 600 ; N Odieresis ; B 43 -18 557 753 ;  
C -1 ; WX 600 ; N mu ; B 21 -157 562 426 ;  
C -1 ; WX 600 ; N igrave ; B 95 0 505 672 ;  
C -1 ; WX 600 ; N ohungarumlaut ; B 62 -15 580 672 ;  
C -1 ; WX 600 ; N Eogonek ; B 53 -172 561 562 ;  
C -1 ; WX 600 ; N dcroat ; B 45 -15 591 629 ;  
C -1 ; WX 600 ; N threequarters ; B 8 -56 593 666 ;  
C -1 ; WX 600 ; N Scedilla ; B 72 -151 529 580 ;  
C -1 ; WX 600 ; N lcaron ; B 95 0 533 629 ;  
C -1 ; WX 600 ; N Kcommaaccent ; B 38 -250 582 562 ;  
C -1 ; WX 600 ; N Lacute ; B 47 0 554 805 ;  
C -1 ; WX 600 ; N trademark ; B -23 263 623 562 ;  
C -1 ; WX 600 ; N edotaccent ; B 66 -15 548 620 ;  
C -1 ; WX 600 ; N Igrave ; B 96 0 504 805 ;  
C -1 ; WX 600 ; N Imacron ; B 96 0 504 698 ;  
C -1 ; WX 600 ; N Lcaron ; B 47 0 554 562 ;  
C -1 ; WX 600 ; N onehalf ; B 0 -57 611 665 ;  
C -1 ; WX 600 ; N lessequal ; B 98 0 502 710 ;  
C -1 ; WX 600 ; N ocircumflex ; B 62 -15 538 654 ;  
C -1 ; WX 600 ; N ntilde ; B 26 0 575 606 ;  
C -1 ; WX 600 ; N Uhungarumlaut ; B 17 -18 590 805 ;  
C -1 ; WX 600 ; N Eacute ; B 53 0 550 805 ;  
C -1 ; WX 600 ; N emacron ; B 66 -15 548 565 ;  
C -1 ; WX 600 ; N gbreve ; B 45 -157 566 609 ;  
C -1 ; WX 600 ; N onequarter ; B 0 -57 600 665 ;  
C -1 ; WX 600 ; N Scaron ; B 72 -20 529 802 ;  
C -1 ; WX 600 ; N Scommaaccent ; B 72 -250 529 580 ;  
C -1 ; WX 600 ; N Ohungarumlaut ; B 43 -18 580 805 ;  
C -1 ; WX 600 ; N degree ; B 123 269 477 622 ;  
C -1 ; WX 600 ; N ograve ; B 62 -15 538 672 ;  
C -1 ; WX 600 ; N Ccaron ; B 41 -18 540 802 ;  
C -1 ; WX 600 ; N ugrave ; B 21 -15 562 672 ;  
C -1 ; WX 600 ; N radical ; B 3 -15 597 792 ;  
C -1 ; WX 600 ; N Dcaron ; B 43 0 574 802 ;  
C -1 ; WX 600 ; N rcommaaccent ; B 60 -250 559 441 ;  
C -1 ; WX 600 ; N Ntilde ; B 7 -13 593 729 ;  
C -1 ; WX 600 ; N otilde ; B 62 -15 538 606 ;  
C -1 ; WX 600 ; N Rcommaaccent ; B 38 -250 588 562 ;  
C -1 ; WX 600 ; N Lcommaaccent ; B 47 -250 554 562 ;

C -1 ; WX 600 ; N Atilde ; B 3 0 597 729 ;  
C -1 ; WX 600 ; N Aogonek ; B 3 -172 608 562 ;  
C -1 ; WX 600 ; N Aring ; B 3 0 597 750 ;  
C -1 ; WX 600 ; N Otilde ; B 43 -18 557 729 ;  
C -1 ; WX 600 ; N zdotaccent ; B 99 0 502 620 ;  
C -1 ; WX 600 ; N Ecaron ; B 53 0 550 802 ;  
C -1 ; WX 600 ; N Iogonek ; B 96 -172 504 562 ;  
C -1 ; WX 600 ; N kcommaaccent ; B 43 -250 580 629 ;  
C -1 ; WX 600 ; N minus ; B 80 232 520 283 ;  
C -1 ; WX 600 ; N Icircumflex ; B 96 0 504 787 ;  
C -1 ; WX 600 ; N ncaron ; B 26 0 575 669 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 87 -250 530 561 ;  
C -1 ; WX 600 ; N logicalnot ; B 87 108 513 369 ;  
C -1 ; WX 600 ; N odieresis ; B 62 -15 538 620 ;  
C -1 ; WX 600 ; N udieresis ; B 21 -15 562 620 ;  
C -1 ; WX 600 ; N notequal ; B 15 -16 540 529 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 45 -157 566 708 ;  
C -1 ; WX 600 ; N eth ; B 62 -15 538 629 ;  
C -1 ; WX 600 ; N zcaron ; B 99 0 502 669 ;  
C -1 ; WX 600 ; N ncommaaccent ; B 26 -250 575 441 ;  
C -1 ; WX 600 ; N onesuperior ; B 172 249 428 622 ;  
C -1 ; WX 600 ; N imacron ; B 95 0 505 565 ;  
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:43:52 1997

Comment UniqueID 43052

Comment VMusage 37169 48194

FontName Helvetica-Bold

FullName Helvetica Bold

FamilyName Helvetica

Weight Bold

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -170 -228 1003 962

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype-Hell AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207



StdHW 118

StdVW 140

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 90 0 244 718 ;  
C 34 ; WX 474 ; N quotedbl ; B 98 447 376 718 ;  
C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;  
C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;  
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;  
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;  
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;  
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;  
C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;  
C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;  
C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;  
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;  
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;  
C 46 ; WX 278 ; N period ; B 64 0 214 146 ;  
C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;  
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;  
C 49 ; WX 556 ; N one ; B 69 0 378 710 ;  
C 50 ; WX 556 ; N two ; B 26 0 511 710 ;  
C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;  
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;  
C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;  
C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;  
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;  
C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;  
C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;  
C 58 ; WX 333 ; N colon ; B 92 0 242 512 ;  
C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;  
C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;  
C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;  
C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;  
C 63 ; WX 611 ; N question ; B 60 0 556 727 ;  
C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;  
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;  
C 66 ; WX 722 ; N B ; B 76 0 669 718 ;  
C 67 ; WX 722 ; N C ; B 44 -19 684 737 ;  
C 68 ; WX 722 ; N D ; B 76 0 685 718 ;  
C 69 ; WX 667 ; N E ; B 76 0 621 718 ;  
C 70 ; WX 611 ; N F ; B 76 0 587 718 ;  
C 71 ; WX 778 ; N G ; B 44 -19 713 737 ;  
C 72 ; WX 722 ; N H ; B 71 0 651 718 ;  
C 73 ; WX 278 ; N I ; B 64 0 214 718 ;  
C 74 ; WX 556 ; N J ; B 22 -18 484 718 ;  
C 75 ; WX 722 ; N K ; B 87 0 722 718 ;  
C 76 ; WX 611 ; N L ; B 76 0 583 718 ;

C 77 ; WX 833 ; N M ; B 69 0 765 718 ;  
C 78 ; WX 722 ; N N ; B 69 0 654 718 ;  
C 79 ; WX 778 ; N O ; B 44 -19 734 737 ;  
C 80 ; WX 667 ; N P ; B 76 0 627 718 ;  
C 81 ; WX 778 ; N Q ; B 44 -52 737 737 ;  
C 82 ; WX 722 ; N R ; B 76 0 677 718 ;  
C 83 ; WX 667 ; N S ; B 39 -19 629 737 ;  
C 84 ; WX 611 ; N T ; B 14 0 598 718 ;  
C 85 ; WX 722 ; N U ; B 72 -19 651 718 ;  
C 86 ; WX 667 ; N V ; B 19 0 648 718 ;  
C 87 ; WX 944 ; N W ; B 16 0 929 718 ;  
C 88 ; WX 667 ; N X ; B 14 0 653 718 ;  
C 89 ; WX 667 ; N Y ; B 15 0 653 718 ;  
C 90 ; WX 611 ; N Z ; B 25 0 586 718 ;  
C 91 ; WX 333 ; N bracketleft ; B 63 -196 309 722 ;  
C 92 ; WX 278 ; N backslash ; B -33 -19 311 737 ;  
C 93 ; WX 333 ; N bracketright ; B 24 -196 270 722 ;  
C 94 ; WX 584 ; N asciicircum ; B 62 323 522 698 ;  
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 69 454 209 727 ;  
C 97 ; WX 556 ; N a ; B 29 -14 527 546 ;  
C 98 ; WX 611 ; N b ; B 61 -14 578 718 ;  
C 99 ; WX 556 ; N c ; B 34 -14 524 546 ;  
C 100 ; WX 611 ; N d ; B 34 -14 551 718 ;  
C 101 ; WX 556 ; N e ; B 23 -14 528 546 ;  
C 102 ; WX 333 ; N f ; B 10 0 318 727 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 40 -217 553 546 ;  
C 104 ; WX 611 ; N h ; B 65 0 546 718 ;  
C 105 ; WX 278 ; N i ; B 69 0 209 725 ;  
C 106 ; WX 278 ; N j ; B 3 -214 209 725 ;  
C 107 ; WX 556 ; N k ; B 69 0 562 718 ;  
C 108 ; WX 278 ; N l ; B 69 0 209 718 ;  
C 109 ; WX 889 ; N m ; B 64 0 826 546 ;  
C 110 ; WX 611 ; N n ; B 65 0 546 546 ;  
C 111 ; WX 611 ; N o ; B 34 -14 578 546 ;  
C 112 ; WX 611 ; N p ; B 62 -207 578 546 ;  
C 113 ; WX 611 ; N q ; B 34 -207 552 546 ;  
C 114 ; WX 389 ; N r ; B 64 0 373 546 ;  
C 115 ; WX 556 ; N s ; B 30 -14 519 546 ;  
C 116 ; WX 333 ; N t ; B 10 -6 309 676 ;  
C 117 ; WX 611 ; N u ; B 66 -14 545 532 ;  
C 118 ; WX 556 ; N v ; B 13 0 543 532 ;  
C 119 ; WX 778 ; N w ; B 10 0 769 532 ;  
C 120 ; WX 556 ; N x ; B 15 0 541 532 ;  
C 121 ; WX 556 ; N y ; B 10 -214 539 532 ;  
C 122 ; WX 500 ; N z ; B 20 0 480 532 ;  
C 123 ; WX 389 ; N braceleft ; B 48 -196 365 722 ;  
C 124 ; WX 280 ; N bar ; B 84 -225 196 775 ;

C 125 ; WX 389 ; N braceright ; B 24 -196 341 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 61 163 523 343 ;  
C 161 ; WX 333 ; N exclamdown ; B 90 -186 244 532 ;  
C 162 ; WX 556 ; N cent ; B 34 -118 524 628 ;  
C 163 ; WX 556 ; N sterling ; B 28 -16 541 718 ;  
C 164 ; WX 167 ; N fraction ; B -170 -19 336 710 ;  
C 165 ; WX 556 ; N yen ; B -9 0 565 698 ;  
C 166 ; WX 556 ; N florin ; B -10 -210 516 737 ;  
C 167 ; WX 556 ; N section ; B 34 -184 522 727 ;  
C 168 ; WX 556 ; N currency ; B -3 76 559 636 ;  
C 169 ; WX 238 ; N quotesingle ; B 70 447 168 718 ;  
C 170 ; WX 500 ; N quotedblleft ; B 64 454 436 727 ;  
C 171 ; WX 556 ; N guillemotleft ; B 88 76 468 484 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 83 76 250 484 ;  
C 173 ; WX 333 ; N guilsinglright ; B 83 76 250 484 ;  
C 174 ; WX 611 ; N fi ; B 10 0 542 727 ;  
C 175 ; WX 611 ; N fl ; B 10 0 542 727 ;  
C 177 ; WX 556 ; N endash ; B 0 227 556 333 ;  
C 178 ; WX 556 ; N dagger ; B 36 -171 520 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 36 -171 520 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 58 172 220 334 ;  
C 182 ; WX 556 ; N paragraph ; B -8 -191 539 700 ;  
C 183 ; WX 350 ; N bullet ; B 10 194 340 524 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 69 -146 209 127 ;  
C 185 ; WX 500 ; N quotedblbase ; B 64 -146 436 127 ;  
C 186 ; WX 500 ; N quotedblright ; B 64 445 436 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 88 76 468 484 ;  
C 188 ; WX 1000 ; N ellipsis ; B 92 0 908 146 ;  
C 189 ; WX 1000 ; N perthousand ; B -3 -19 1003 710 ;  
C 191 ; WX 611 ; N questiondown ; B 55 -195 551 532 ;  
C 193 ; WX 333 ; N grave ; B -23 604 225 750 ;  
C 194 ; WX 333 ; N acute ; B 108 604 356 750 ;  
C 195 ; WX 333 ; N circumflex ; B -10 604 343 750 ;  
C 196 ; WX 333 ; N tilde ; B -17 610 350 737 ;  
C 197 ; WX 333 ; N macron ; B -6 604 339 678 ;  
C 198 ; WX 333 ; N breve ; B -2 604 335 750 ;  
C 199 ; WX 333 ; N dotaccent ; B 104 614 230 729 ;  
C 200 ; WX 333 ; N dieresis ; B 6 614 327 729 ;  
C 202 ; WX 333 ; N ring ; B 59 568 275 776 ;  
C 203 ; WX 333 ; N cedilla ; B 6 -228 245 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 9 604 486 750 ;  
C 206 ; WX 333 ; N ogonek ; B 71 -228 304 0 ;  
C 207 ; WX 333 ; N caron ; B -10 604 343 750 ;  
C 208 ; WX 1000 ; N emdash ; B 0 227 1000 333 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 954 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 22 401 347 737 ;  
C 232 ; WX 611 ; N Lslash ; B -20 0 583 718 ;  
C 233 ; WX 778 ; N Oslash ; B 33 -27 744 745 ;

C 234 ; WX 1000 ; N OE ; B 37 -19 961 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 6 401 360 737 ;  
C 241 ; WX 889 ; N ae ; B 29 -14 858 546 ;  
C 245 ; WX 278 ; N dotlessi ; B 69 0 209 532 ;  
C 248 ; WX 278 ; N lslash ; B -18 0 296 718 ;  
C 249 ; WX 611 ; N oslash ; B 22 -29 589 560 ;  
C 250 ; WX 944 ; N oe ; B 34 -14 912 546 ;  
C 251 ; WX 611 ; N germandbls ; B 69 -14 579 731 ;  
C -1 ; WX 278 ; N Idieresis ; B -21 0 300 915 ;  
C -1 ; WX 556 ; N eacute ; B 23 -14 528 750 ;  
C -1 ; WX 556 ; N abreve ; B 29 -14 527 750 ;  
C -1 ; WX 611 ; N uhungarumlaut ; B 66 -14 625 750 ;  
C -1 ; WX 556 ; N ecaron ; B 23 -14 528 750 ;  
C -1 ; WX 667 ; N Ydieresis ; B 15 0 653 915 ;  
C -1 ; WX 584 ; N divide ; B 40 -42 544 548 ;  
C -1 ; WX 667 ; N Yacute ; B 15 0 653 936 ;  
C -1 ; WX 722 ; N Acircumflex ; B 20 0 702 936 ;  
C -1 ; WX 556 ; N aacute ; B 29 -14 527 750 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 72 -19 651 936 ;  
C -1 ; WX 556 ; N yacute ; B 10 -214 539 750 ;  
C -1 ; WX 556 ; N scommaaccent ; B 30 -228 519 546 ;  
C -1 ; WX 556 ; N ecircumflex ; B 23 -14 528 750 ;  
C -1 ; WX 722 ; N Uring ; B 72 -19 651 962 ;  
C -1 ; WX 722 ; N Udieresis ; B 72 -19 651 915 ;  
C -1 ; WX 556 ; N aogonek ; B 29 -224 545 546 ;  
C -1 ; WX 722 ; N Uacute ; B 72 -19 651 936 ;  
C -1 ; WX 611 ; N uogonek ; B 66 -228 545 532 ;  
C -1 ; WX 667 ; N Edieresis ; B 76 0 621 915 ;  
C -1 ; WX 722 ; N Dcroat ; B -5 0 685 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 64 -228 199 -50 ;  
C -1 ; WX 737 ; N copyright ; B -11 -19 749 737 ;  
C -1 ; WX 667 ; N Emacron ; B 76 0 621 864 ;  
C -1 ; WX 556 ; N ccaron ; B 34 -14 524 750 ;  
C -1 ; WX 556 ; N aring ; B 29 -14 527 776 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 69 -228 654 718 ;  
C -1 ; WX 278 ; N lacute ; B 69 0 329 936 ;  
C -1 ; WX 556 ; N agrave ; B 29 -14 527 750 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 14 -228 598 718 ;  
C -1 ; WX 722 ; N Cacute ; B 44 -19 684 936 ;  
C -1 ; WX 556 ; N atilde ; B 29 -14 527 737 ;  
C -1 ; WX 667 ; N Edotaccent ; B 76 0 621 915 ;  
C -1 ; WX 556 ; N scaron ; B 30 -14 519 750 ;  
C -1 ; WX 556 ; N scedilla ; B 30 -228 519 546 ;  
C -1 ; WX 278 ; N iacute ; B 69 0 329 750 ;  
C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;  
C -1 ; WX 722 ; N Rcaron ; B 76 0 677 936 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 44 -228 713 737 ;  
C -1 ; WX 611 ; N ucircumflex ; B 66 -14 545 750 ;

C -1 ; WX 556 ; N acircumflex ; B 29 -14 527 750 ;  
C -1 ; WX 722 ; N Amacron ; B 20 0 702 864 ;  
C -1 ; WX 389 ; N rcaron ; B 18 0 373 750 ;  
C -1 ; WX 556 ; N ccedilla ; B 34 -228 524 546 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 25 0 586 915 ;  
C -1 ; WX 667 ; N Thorn ; B 76 0 627 718 ;  
C -1 ; WX 778 ; N Omacron ; B 44 -19 734 864 ;  
C -1 ; WX 722 ; N Racute ; B 76 0 677 936 ;  
C -1 ; WX 667 ; N Sacute ; B 39 -19 629 936 ;  
C -1 ; WX 743 ; N dcaron ; B 34 -14 750 718 ;  
C -1 ; WX 722 ; N Umacron ; B 72 -19 651 864 ;  
C -1 ; WX 611 ; N uring ; B 66 -14 545 776 ;  
C -1 ; WX 333 ; N threesuperior ; B 8 271 326 710 ;  
C -1 ; WX 778 ; N Ograve ; B 44 -19 734 936 ;  
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;  
C -1 ; WX 722 ; N Abreve ; B 20 0 702 936 ;  
C -1 ; WX 584 ; N multiply ; B 40 1 545 505 ;  
C -1 ; WX 611 ; N uacute ; B 66 -14 545 750 ;  
C -1 ; WX 611 ; N Tcaron ; B 14 0 598 936 ;  
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;  
C -1 ; WX 556 ; N ydieresis ; B 10 -214 539 729 ;  
C -1 ; WX 722 ; N Nacute ; B 69 0 654 936 ;  
C -1 ; WX 278 ; N icircumflex ; B -37 0 316 750 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 621 936 ;  
C -1 ; WX 556 ; N adieresis ; B 29 -14 527 729 ;  
C -1 ; WX 556 ; N edieresis ; B 23 -14 528 729 ;  
C -1 ; WX 556 ; N cacute ; B 34 -14 524 750 ;  
C -1 ; WX 611 ; N nacute ; B 65 0 546 750 ;  
C -1 ; WX 611 ; N umacron ; B 66 -14 545 678 ;  
C -1 ; WX 722 ; N Ncaron ; B 69 0 654 936 ;  
C -1 ; WX 278 ; N Iacute ; B 64 0 329 936 ;  
C -1 ; WX 584 ; N plusminus ; B 40 0 544 506 ;  
C -1 ; WX 280 ; N brokenbar ; B 84 -150 196 700 ;  
C -1 ; WX 737 ; N registered ; B -11 -19 748 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 44 -19 713 936 ;  
C -1 ; WX 278 ; N Idotaccent ; B 64 0 214 915 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;  
C -1 ; WX 667 ; N Egrave ; B 76 0 621 936 ;  
C -1 ; WX 389 ; N racute ; B 64 0 384 750 ;  
C -1 ; WX 611 ; N omacron ; B 34 -14 578 678 ;  
C -1 ; WX 611 ; N Zacute ; B 25 0 586 936 ;  
C -1 ; WX 611 ; N Zcaron ; B 25 0 586 936 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;  
C -1 ; WX 722 ; N Eth ; B -5 0 685 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -228 684 737 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 69 -228 213 718 ;  
C -1 ; WX 389 ; N tcaron ; B 10 -6 421 878 ;  
C -1 ; WX 556 ; N eogonek ; B 23 -228 528 546 ;

C -1 ; WX 722 ; N Uogonek ; B 72 -228 651 718 ;  
C -1 ; WX 722 ; N Aacute ; B 20 0 702 936 ;  
C -1 ; WX 722 ; N Adieresis ; B 20 0 702 915 ;  
C -1 ; WX 556 ; N egrave ; B 23 -14 528 750 ;  
C -1 ; WX 500 ; N zacute ; B 20 0 480 750 ;  
C -1 ; WX 278 ; N iogonek ; B 16 -224 249 725 ;  
C -1 ; WX 778 ; N Oacute ; B 44 -19 734 936 ;  
C -1 ; WX 611 ; N oacute ; B 34 -14 578 750 ;  
C -1 ; WX 556 ; N amacron ; B 29 -14 527 678 ;  
C -1 ; WX 556 ; N sacute ; B 30 -14 519 750 ;  
C -1 ; WX 278 ; N idieresis ; B -21 0 300 729 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 44 -19 734 936 ;  
C -1 ; WX 722 ; N Ugrave ; B 72 -19 651 936 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 611 ; N thorn ; B 62 -208 578 718 ;  
C -1 ; WX 333 ; N twosuperior ; B 9 283 324 710 ;  
C -1 ; WX 778 ; N Odieresis ; B 44 -19 734 915 ;  
C -1 ; WX 611 ; N mu ; B 66 -207 545 532 ;  
C -1 ; WX 278 ; N igrave ; B -50 0 209 750 ;  
C -1 ; WX 611 ; N ohungarumlaut ; B 34 -14 625 750 ;  
C -1 ; WX 667 ; N Eogonek ; B 76 -224 639 718 ;  
C -1 ; WX 611 ; N dcroat ; B 34 -14 650 718 ;  
C -1 ; WX 834 ; N threequarters ; B 16 -19 799 710 ;  
C -1 ; WX 667 ; N Scedilla ; B 39 -228 629 737 ;  
C -1 ; WX 400 ; N lcaron ; B 69 0 408 718 ;  
C -1 ; WX 722 ; N Kcommaaccent ; B 87 -228 722 718 ;  
C -1 ; WX 611 ; N Lacute ; B 76 0 583 936 ;  
C -1 ; WX 1000 ; N trademark ; B 44 306 956 718 ;  
C -1 ; WX 556 ; N edotaccent ; B 23 -14 528 729 ;  
C -1 ; WX 278 ; N Igrave ; B -50 0 214 936 ;  
C -1 ; WX 278 ; N Imacron ; B -33 0 312 864 ;  
C -1 ; WX 611 ; N Lcaron ; B 76 0 583 718 ;  
C -1 ; WX 834 ; N onehalf ; B 26 -19 794 710 ;  
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;  
C -1 ; WX 611 ; N ocircumflex ; B 34 -14 578 750 ;  
C -1 ; WX 611 ; N ntilde ; B 65 0 546 737 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 72 -19 681 936 ;  
C -1 ; WX 667 ; N Eacute ; B 76 0 621 936 ;  
C -1 ; WX 556 ; N emacron ; B 23 -14 528 678 ;  
C -1 ; WX 611 ; N gbreve ; B 40 -217 553 750 ;  
C -1 ; WX 834 ; N onequarter ; B 26 -19 766 710 ;  
C -1 ; WX 667 ; N Scaron ; B 39 -19 629 936 ;  
C -1 ; WX 667 ; N Scommaaccent ; B 39 -228 629 737 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 44 -19 734 936 ;  
C -1 ; WX 400 ; N degree ; B 57 426 343 712 ;  
C -1 ; WX 611 ; N ograve ; B 34 -14 578 750 ;  
C -1 ; WX 722 ; N Ccaron ; B 44 -19 684 936 ;  
C -1 ; WX 611 ; N ugrave ; B 66 -14 545 750 ;

C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;  
C -1 ; WX 722 ; N Dcaron ; B 76 0 685 936 ;  
C -1 ; WX 389 ; N rcommaaccent ; B 64 -228 373 546 ;  
C -1 ; WX 722 ; N Ntilde ; B 69 0 654 923 ;  
C -1 ; WX 611 ; N otilde ; B 34 -14 578 737 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 76 -228 677 718 ;  
C -1 ; WX 611 ; N Lcommaaccent ; B 76 -228 583 718 ;  
C -1 ; WX 722 ; N Atilde ; B 20 0 702 923 ;  
C -1 ; WX 722 ; N Aogonek ; B 20 -224 742 718 ;  
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;  
C -1 ; WX 778 ; N Otilde ; B 44 -19 734 923 ;  
C -1 ; WX 500 ; N zdotaccent ; B 20 0 480 729 ;  
C -1 ; WX 667 ; N Ecaron ; B 76 0 621 936 ;  
C -1 ; WX 278 ; N Iogonek ; B -11 -228 222 718 ;  
C -1 ; WX 556 ; N kcommaaccent ; B 69 -228 562 718 ;  
C -1 ; WX 584 ; N minus ; B 40 197 544 309 ;  
C -1 ; WX 278 ; N Icircumflex ; B -37 0 316 936 ;  
C -1 ; WX 611 ; N ncaron ; B 65 0 546 750 ;  
C -1 ; WX 333 ; N tcommaaccent ; B 10 -228 309 676 ;  
C -1 ; WX 584 ; N logicalnot ; B 40 108 544 419 ;  
C -1 ; WX 611 ; N odieresis ; B 34 -14 578 729 ;  
C -1 ; WX 611 ; N udieresis ; B 66 -14 545 729 ;  
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;  
C -1 ; WX 611 ; N gcommaaccent ; B 40 -217 553 850 ;  
C -1 ; WX 611 ; N eth ; B 34 -14 578 737 ;  
C -1 ; WX 500 ; N zcaron ; B 20 0 480 750 ;  
C -1 ; WX 611 ; N ncommaaccent ; B 65 -228 546 546 ;  
C -1 ; WX 333 ; N onesuperior ; B 26 283 237 710 ;  
C -1 ; WX 278 ; N imacron ; B -8 0 285 678 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2481

KPX A C -40

KPX A Cacute -40

KPX A Ccaron -40

KPX A Ccedilla -40

KPX A G -50

KPX A Gbreve -50

KPX A Gcommaaccent -50

KPX A O -40

KPX A Oacute -40

KPX A Ocircumflex -40

KPX A Odieresis -40

KPX A Ograve -40

KPX A Ohungarumlaut -40

KPX A Omacron -40

KPX A Oslash -40

KPX A Otilde -40  
KPX A Q -40  
KPX A T -90  
KPX A Tcaron -90  
KPX A Tcommaaccent -90  
KPX A U -50  
KPX A Uacute -50  
KPX A Ucircumflex -50  
KPX A Udieresis -50  
KPX A Ugrave -50  
KPX A Uhungarumlaut -50  
KPX A Umacron -50  
KPX A Uogonek -50  
KPX A Uring -50  
KPX A V -80  
KPX A W -60  
KPX A Y -110  
KPX A Yacute -110  
KPX A Ydieresis -110  
KPX A u -30  
KPX A uacute -30  
KPX A ucircumflex -30  
KPX A udieresis -30  
KPX A ugrave -30  
KPX A uhungarumlaut -30  
KPX A umacron -30  
KPX A uogonek -30  
KPX A uring -30  
KPX A v -40  
KPX A w -30  
KPX A y -30  
KPX A yacute -30  
KPX A ydieresis -30  
KPX Aacute C -40  
KPX Aacute Cacute -40  
KPX Aacute Ccaron -40  
KPX Aacute Ccedilla -40  
KPX Aacute G -50  
KPX Aacute Gbreve -50  
KPX Aacute Gcommaaccent -50  
KPX Aacute O -40  
KPX Aacute Oacute -40  
KPX Aacute Ocircumflex -40  
KPX Aacute Odieresis -40  
KPX Aacute Ograve -40  
KPX Aacute Ohungarumlaut -40  
KPX Aacute Omacron -40  
KPX Aacute Oslash -40



KPX Aacute Otilde -40  
KPX Aacute Q -40  
KPX Aacute T -90  
KPX Aacute Tcaron -90  
KPX Aacute Tcommaaccent -90  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50  
KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -80  
KPX Aacute W -60  
KPX Aacute Y -110  
KPX Aacute Yacute -110  
KPX Aacute Ydieresis -110  
KPX Aacute u -30  
KPX Aacute uacute -30  
KPX Aacute ucircumflex -30  
KPX Aacute udieresis -30  
KPX Aacute ugrave -30  
KPX Aacute uhungarumlaut -30  
KPX Aacute umacron -30  
KPX Aacute uogonek -30  
KPX Aacute uring -30  
KPX Aacute v -40  
KPX Aacute w -30  
KPX Aacute y -30  
KPX Aacute yacute -30  
KPX Aacute ydieresis -30  
KPX Abreve C -40  
KPX Abreve Cacute -40  
KPX Abreve Ccaron -40  
KPX Abreve Ccedilla -40  
KPX Abreve G -50  
KPX Abreve Gbreve -50  
KPX Abreve Gcommaaccent -50  
KPX Abreve O -40  
KPX Abreve Oacute -40  
KPX Abreve Ocircumflex -40  
KPX Abreve Odieresis -40  
KPX Abreve Ograve -40  
KPX Abreve Ohungarumlaut -40  
KPX Abreve Omacron -40  
KPX Abreve Oslash -40

KPX Abreve Otilde -40  
KPX Abreve Q -40  
KPX Abreve T -90  
KPX Abreve Tcaron -90  
KPX Abreve Tcommaaccent -90  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50  
KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -80  
KPX Abreve W -60  
KPX Abreve Y -110  
KPX Abreve Yacute -110  
KPX Abreve Ydieresis -110  
KPX Abreve u -30  
KPX Abreve uacute -30  
KPX Abreve ucircumflex -30  
KPX Abreve udieresis -30  
KPX Abreve ugrave -30  
KPX Abreve uhungarumlaut -30  
KPX Abreve umacron -30  
KPX Abreve uogonek -30  
KPX Abreve uring -30  
KPX Abreve v -40  
KPX Abreve w -30  
KPX Abreve y -30  
KPX Abreve yacute -30  
KPX Abreve ydieresis -30  
KPX Acircumflex C -40  
KPX Acircumflex Cacute -40  
KPX Acircumflex Ccaron -40  
KPX Acircumflex Ccedilla -40  
KPX Acircumflex G -50  
KPX Acircumflex Gbreve -50  
KPX Acircumflex Gcommaaccent -50  
KPX Acircumflex O -40  
KPX Acircumflex Oacute -40  
KPX Acircumflex Ocircumflex -40  
KPX Acircumflex Odieresis -40  
KPX Acircumflex Ograve -40  
KPX Acircumflex Ohungarumlaut -40  
KPX Acircumflex Omacron -40  
KPX Acircumflex Oslash -40

KPX Acircumflex Otilde -40  
KPX Acircumflex Q -40  
KPX Acircumflex T -90  
KPX Acircumflex Tcaron -90  
KPX Acircumflex Tcommaaccent -90  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50  
KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50  
KPX Acircumflex V -80  
KPX Acircumflex W -60  
KPX Acircumflex Y -110  
KPX Acircumflex Yacute -110  
KPX Acircumflex Ydieresis -110  
KPX Acircumflex u -30  
KPX Acircumflex uacute -30  
KPX Acircumflex ucircumflex -30  
KPX Acircumflex udieresis -30  
KPX Acircumflex ugrave -30  
KPX Acircumflex uhungarumlaut -30  
KPX Acircumflex umacron -30  
KPX Acircumflex uogonek -30  
KPX Acircumflex uring -30  
KPX Acircumflex v -40  
KPX Acircumflex w -30  
KPX Acircumflex y -30  
KPX Acircumflex yacute -30  
KPX Acircumflex ydieresis -30  
KPX Adieresis C -40  
KPX Adieresis Cacute -40  
KPX Adieresis Ccaron -40  
KPX Adieresis Ccedilla -40  
KPX Adieresis G -50  
KPX Adieresis Gbreve -50  
KPX Adieresis Gcommaaccent -50  
KPX Adieresis O -40  
KPX Adieresis Oacute -40  
KPX Adieresis Ocircumflex -40  
KPX Adieresis Odieresis -40  
KPX Adieresis Ograve -40  
KPX Adieresis Ohungarumlaut -40  
KPX Adieresis Omacron -40  
KPX Adieresis Oslash -40

KPX Adieresis Otilde -40  
KPX Adieresis Q -40  
KPX Adieresis T -90  
KPX Adieresis Tcaron -90  
KPX Adieresis Tcommaaccent -90  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50  
KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50  
KPX Adieresis V -80  
KPX Adieresis W -60  
KPX Adieresis Y -110  
KPX Adieresis Yacute -110  
KPX Adieresis Ydieresis -110  
KPX Adieresis u -30  
KPX Adieresis uacute -30  
KPX Adieresis ucircumflex -30  
KPX Adieresis udieresis -30  
KPX Adieresis ugrave -30  
KPX Adieresis uhungarumlaut -30  
KPX Adieresis umacron -30  
KPX Adieresis uogonek -30  
KPX Adieresis uring -30  
KPX Adieresis v -40  
KPX Adieresis w -30  
KPX Adieresis y -30  
KPX Adieresis yacute -30  
KPX Adieresis ydieresis -30  
KPX Agrave C -40  
KPX Agrave Cacute -40  
KPX Agrave Ccaron -40  
KPX Agrave Ccedilla -40  
KPX Agrave G -50  
KPX Agrave Gbreve -50  
KPX Agrave Gcommaaccent -50  
KPX Agrave O -40  
KPX Agrave Oacute -40  
KPX Agrave Ocircumflex -40  
KPX Agrave Odieresis -40  
KPX Agrave Ograve -40  
KPX Agrave Ohungarumlaut -40  
KPX Agrave Omacron -40  
KPX Agrave Oslash -40

KPX Agrave Otilde -40  
KPX Agrave Q -40  
KPX Agrave T -90  
KPX Agrave Tcaron -90  
KPX Agrave Tcommaaccent -90  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50  
KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50  
KPX Agrave Uogonek -50  
KPX Agrave Uring -50  
KPX Agrave V -80  
KPX Agrave W -60  
KPX Agrave Y -110  
KPX Agrave Yacute -110  
KPX Agrave Ydieresis -110  
KPX Agrave u -30  
KPX Agrave uacute -30  
KPX Agrave ucircumflex -30  
KPX Agrave udieresis -30  
KPX Agrave ugrave -30  
KPX Agrave uhungarumlaut -30  
KPX Agrave umacron -30  
KPX Agrave uogonek -30  
KPX Agrave uring -30  
KPX Agrave v -40  
KPX Agrave w -30  
KPX Agrave y -30  
KPX Agrave yacute -30  
KPX Agrave ydieresis -30  
KPX Amacron C -40  
KPX Amacron Cacute -40  
KPX Amacron Ccaron -40  
KPX Amacron Ccedilla -40  
KPX Amacron G -50  
KPX Amacron Gbreve -50  
KPX Amacron Gcommaaccent -50  
KPX Amacron O -40  
KPX Amacron Oacute -40  
KPX Amacron Ocircumflex -40  
KPX Amacron Odieresis -40  
KPX Amacron Ograve -40  
KPX Amacron Ohungarumlaut -40  
KPX Amacron Omacron -40  
KPX Amacron Oslash -40

KPX Amacron Otilde -40  
KPX Amacron Q -40  
KPX Amacron T -90  
KPX Amacron Tcaron -90  
KPX Amacron Tcommaaccent -90  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50  
KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50  
KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -80  
KPX Amacron W -60  
KPX Amacron Y -110  
KPX Amacron Yacute -110  
KPX Amacron Ydieresis -110  
KPX Amacron u -30  
KPX Amacron uacute -30  
KPX Amacron ucircumflex -30  
KPX Amacron udieresis -30  
KPX Amacron ugrave -30  
KPX Amacron uhungarumlaut -30  
KPX Amacron umacron -30  
KPX Amacron uogonek -30  
KPX Amacron uring -30  
KPX Amacron v -40  
KPX Amacron w -30  
KPX Amacron y -30  
KPX Amacron yacute -30  
KPX Amacron ydieresis -30  
KPX Aogonek C -40  
KPX Aogonek Cacute -40  
KPX Aogonek Ccaron -40  
KPX Aogonek Ccedilla -40  
KPX Aogonek G -50  
KPX Aogonek Gbreve -50  
KPX Aogonek Gcommaaccent -50  
KPX Aogonek O -40  
KPX Aogonek Oacute -40  
KPX Aogonek Ocircumflex -40  
KPX Aogonek Odieresis -40  
KPX Aogonek Ograve -40  
KPX Aogonek Ohungarumlaut -40  
KPX Aogonek Omacron -40  
KPX Aogonek Oslash -40

KPX Aogonek Otilde -40  
KPX Aogonek Q -40  
KPX Aogonek T -90  
KPX Aogonek Tcaron -90  
KPX Aogonek Tcommaaccent -90  
KPX Aogonek U -50  
KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50  
KPX Aogonek Umacron -50  
KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -80  
KPX Aogonek W -60  
KPX Aogonek Y -110  
KPX Aogonek Yacute -110  
KPX Aogonek Ydieresis -110  
KPX Aogonek u -30  
KPX Aogonek uacute -30  
KPX Aogonek ucircumflex -30  
KPX Aogonek udieresis -30  
KPX Aogonek ugrave -30  
KPX Aogonek uhungarumlaut -30  
KPX Aogonek umacron -30  
KPX Aogonek uogonek -30  
KPX Aogonek uring -30  
KPX Aogonek v -40  
KPX Aogonek w -30  
KPX Aogonek y -30  
KPX Aogonek yacute -30  
KPX Aogonek ydieresis -30  
KPX Aring C -40  
KPX Aring Cacute -40  
KPX Aring Ccaron -40  
KPX Aring Ccedilla -40  
KPX Aring G -50  
KPX Aring Gbreve -50  
KPX Aring Gcommaaccent -50  
KPX Aring O -40  
KPX Aring Oacute -40  
KPX Aring Ocircumflex -40  
KPX Aring Odieresis -40  
KPX Aring Ograve -40  
KPX Aring Ohungarumlaut -40  
KPX Aring Omacron -40  
KPX Aring Oslash -40

KPX Aring Otilde -40  
KPX Aring Q -40  
KPX Aring T -90  
KPX Aring Tcaron -90  
KPX Aring Tcommaaccent -90  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50  
KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50  
KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -80  
KPX Aring W -60  
KPX Aring Y -110  
KPX Aring Yacute -110  
KPX Aring Ydieresis -110  
KPX Aring u -30  
KPX Aring uacute -30  
KPX Aring ucircumflex -30  
KPX Aring udieresis -30  
KPX Aring ugrave -30  
KPX Aring uhungarumlaut -30  
KPX Aring umacron -30  
KPX Aring uogonek -30  
KPX Aring uring -30  
KPX Aring v -40  
KPX Aring w -30  
KPX Aring y -30  
KPX Aring yacute -30  
KPX Aring ydieresis -30  
KPX Atilde C -40  
KPX Atilde Cacute -40  
KPX Atilde Ccaron -40  
KPX Atilde Ccedilla -40  
KPX Atilde G -50  
KPX Atilde Gbreve -50  
KPX Atilde Gcommaaccent -50  
KPX Atilde O -40  
KPX Atilde Oacute -40  
KPX Atilde Ocircumflex -40  
KPX Atilde Odieresis -40  
KPX Atilde Ograve -40  
KPX Atilde Ohungarumlaut -40  
KPX Atilde Omacron -40  
KPX Atilde Oslash -40



KPX Atilde Otilde -40  
KPX Atilde Q -40  
KPX Atilde T -90  
KPX Atilde Tcaron -90  
KPX Atilde Tcommaaccent -90  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50  
KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50  
KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -80  
KPX Atilde W -60  
KPX Atilde Y -110  
KPX Atilde Yacute -110  
KPX Atilde Ydieresis -110  
KPX Atilde u -30  
KPX Atilde uacute -30  
KPX Atilde ucircumflex -30  
KPX Atilde udieresis -30  
KPX Atilde ugrave -30  
KPX Atilde uhungarumlaut -30  
KPX Atilde umacron -30  
KPX Atilde uogonek -30  
KPX Atilde uring -30  
KPX Atilde v -40  
KPX Atilde w -30  
KPX Atilde y -30  
KPX Atilde yacute -30  
KPX Atilde ydieresis -30  
KPX B A -30  
KPX B Aacute -30  
KPX B Abreve -30  
KPX B Acircumflex -30  
KPX B Adieresis -30  
KPX B Agrave -30  
KPX B Amacron -30  
KPX B Aogonek -30  
KPX B Aring -30  
KPX B Atilde -30  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10

KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX D A -40  
KPX D Aacute -40  
KPX D Abreve -40  
KPX D Acircumflex -40  
KPX D Adieresis -40  
KPX D Agrave -40  
KPX D Amacron -40  
KPX D Aogonek -40  
KPX D Aring -40  
KPX D Atilde -40  
KPX D V -40  
KPX D W -40  
KPX D Y -70  
KPX D Yacute -70  
KPX D Ydieresis -70  
KPX D comma -30  
KPX D period -30  
KPX Dcaron A -40  
KPX Dcaron Aacute -40  
KPX Dcaron Abreve -40  
KPX Dcaron Acircumflex -40  
KPX Dcaron Adieresis -40  
KPX Dcaron Agrave -40  
KPX Dcaron Amacron -40  
KPX Dcaron Aogonek -40  
KPX Dcaron Aring -40  
KPX Dcaron Atilde -40  
KPX Dcaron V -40  
KPX Dcaron W -40  
KPX Dcaron Y -70  
KPX Dcaron Yacute -70  
KPX Dcaron Ydieresis -70  
KPX Dcaron comma -30  
KPX Dcaron period -30  
KPX Dcroat A -40  
KPX Dcroat Aacute -40  
KPX Dcroat Abreve -40  
KPX Dcroat Acircumflex -40  
KPX Dcroat Adieresis -40  
KPX Dcroat Agrave -40  
KPX Dcroat Amacron -40  
KPX Dcroat Aogonek -40  
KPX Dcroat Aring -40  
KPX Dcroat Atilde -40

KPX Dcroat V -40  
KPX Dcroat W -40  
KPX Dcroat Y -70  
KPX Dcroat Yacute -70  
KPX Dcroat Ydieresis -70  
KPX Dcroat comma -30  
KPX Dcroat period -30  
KPX F A -80  
KPX F Aacute -80  
KPX F Abreve -80  
KPX F Acircumflex -80  
KPX F Adieresis -80  
KPX F Agrave -80  
KPX F Amacron -80  
KPX F Aogonek -80  
KPX F Aring -80  
KPX F Atilde -80  
KPX F a -20  
KPX F aacute -20  
KPX F abreve -20  
KPX F acircumflex -20  
KPX F adieresis -20  
KPX F agrave -20  
KPX F amacron -20  
KPX F aogonek -20  
KPX F aring -20  
KPX F atilde -20  
KPX F comma -100  
KPX F period -100  
KPX J A -20  
KPX J Aacute -20  
KPX J Abreve -20  
KPX J Acircumflex -20  
KPX J Adieresis -20  
KPX J Agrave -20  
KPX J Amacron -20  
KPX J Aogonek -20  
KPX J Aring -20  
KPX J Atilde -20  
KPX J comma -20  
KPX J period -20  
KPX J u -20  
KPX J uacute -20  
KPX J ucircumflex -20  
KPX J udieresis -20  
KPX J ugrave -20  
KPX J uhungarumlaut -20  
KPX J umacron -20

KPX J uogonek -20  
KPX J uring -20  
KPX K O -30  
KPX K Oacute -30  
KPX K Ocircumflex -30  
KPX K Odieresis -30  
KPX K Ograve -30  
KPX K Ohungarumlaut -30  
KPX K Omacron -30  
KPX K Oslash -30  
KPX K Otilde -30  
KPX K e -15  
KPX K eacute -15  
KPX K ecaron -15  
KPX K ecircumflex -15  
KPX K edieresis -15  
KPX K edotaccent -15  
KPX K egrave -15  
KPX K emacron -15  
KPX K eogonek -15  
KPX K o -35  
KPX K oacute -35  
KPX K ocircumflex -35  
KPX K odieresis -35  
KPX K ograve -35  
KPX K ohungarumlaut -35  
KPX K omacron -35  
KPX K oslash -35  
KPX K otilde -35  
KPX K u -30  
KPX K uacute -30  
KPX K ucircumflex -30  
KPX K udieresis -30  
KPX K ugrave -30  
KPX K uhungarumlaut -30  
KPX K umacron -30  
KPX K uogonek -30  
KPX K uring -30  
KPX K y -40  
KPX K yacute -40  
KPX K ydieresis -40  
KPX Kcommaaccent O -30  
KPX Kcommaaccent Oacute -30  
KPX Kcommaaccent Ocircumflex -30  
KPX Kcommaaccent Odieresis -30  
KPX Kcommaaccent Ograve -30  
KPX Kcommaaccent Ohungarumlaut -30  
KPX Kcommaaccent Omacron -30

KPX Kcommaaccent Oslash -30  
KPX Kcommaaccent Otilde -30  
KPX Kcommaaccent e -15  
KPX Kcommaaccent eacute -15  
KPX Kcommaaccent ecaron -15  
KPX Kcommaaccent ecircumflex -15  
KPX Kcommaaccent edieresis -15  
KPX Kcommaaccent edotaccent -15  
KPX Kcommaaccent egrave -15  
KPX Kcommaaccent emacron -15  
KPX Kcommaaccent eogonek -15  
KPX Kcommaaccent o -35  
KPX Kcommaaccent oacute -35  
KPX Kcommaaccent ocircumflex -35  
KPX Kcommaaccent odieresis -35  
KPX Kcommaaccent ograve -35  
KPX Kcommaaccent ohungarumlaut -35  
KPX Kcommaaccent omacron -35  
KPX Kcommaaccent oslash -35  
KPX Kcommaaccent otilde -35  
KPX Kcommaaccent u -30  
KPX Kcommaaccent uacute -30  
KPX Kcommaaccent ucircumflex -30  
KPX Kcommaaccent udieresis -30  
KPX Kcommaaccent ugrave -30  
KPX Kcommaaccent uhungarumlaut -30  
KPX Kcommaaccent umacron -30  
KPX Kcommaaccent uogonek -30  
KPX Kcommaaccent uring -30  
KPX Kcommaaccent y -40  
KPX Kcommaaccent yacute -40  
KPX Kcommaaccent ydieresis -40  
KPX L T -90  
KPX L Tcaron -90  
KPX L Tcommaaccent -90  
KPX L V -110  
KPX L W -80  
KPX L Y -120  
KPX L Yacute -120  
KPX L Ydieresis -120  
KPX L quotedblright -140  
KPX L quoteright -140  
KPX L y -30  
KPX L yacute -30  
KPX L ydieresis -30  
KPX Lacute T -90  
KPX Lacute Tcaron -90  
KPX Lacute Tcommaaccent -90

KPX Lacute V -110  
KPX Lacute W -80  
KPX Lacute Y -120  
KPX Lacute Yacute -120  
KPX Lacute Ydieresis -120  
KPX Lacute quotedblright -140  
KPX Lacute quoteright -140  
KPX Lacute y -30  
KPX Lacute yacute -30  
KPX Lacute ydieresis -30  
KPX Lcommaaccent T -90  
KPX Lcommaaccent Tcaron -90  
KPX Lcommaaccent Tcommaaccent -90  
KPX Lcommaaccent V -110  
KPX Lcommaaccent W -80  
KPX Lcommaaccent Y -120  
KPX Lcommaaccent Yacute -120  
KPX Lcommaaccent Ydieresis -120  
KPX Lcommaaccent quotedblright -140  
KPX Lcommaaccent quoteright -140  
KPX Lcommaaccent y -30  
KPX Lcommaaccent yacute -30  
KPX Lcommaaccent ydieresis -30  
KPX Lslash T -90  
KPX Lslash Tcaron -90  
KPX Lslash Tcommaaccent -90  
KPX Lslash V -110  
KPX Lslash W -80  
KPX Lslash Y -120  
KPX Lslash Yacute -120  
KPX Lslash Ydieresis -120  
KPX Lslash quotedblright -140  
KPX Lslash quoteright -140  
KPX Lslash y -30  
KPX Lslash yacute -30  
KPX Lslash ydieresis -30  
KPX O A -50  
KPX O Acute -50  
KPX O Abreve -50  
KPX O Acircumflex -50  
KPX O Adieresis -50  
KPX O Agrave -50  
KPX O Amacron -50  
KPX O Aogonek -50  
KPX O Aring -50  
KPX O Atilde -50  
KPX O T -40  
KPX O Tcaron -40

KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -50  
KPX O X -50  
KPX O Y -70  
KPX O Yacute -70  
KPX O Ydieresis -70  
KPX O comma -40  
KPX O period -40  
KPX Oacute A -50  
KPX Oacute Aacute -50  
KPX Oacute Abreve -50  
KPX Oacute Acircumflex -50  
KPX Oacute Adieresis -50  
KPX Oacute Agrave -50  
KPX Oacute Amacron -50  
KPX Oacute Aogonek -50  
KPX Oacute Aring -50  
KPX Oacute Atilde -50  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -50  
KPX Oacute X -50  
KPX Oacute Y -70  
KPX Oacute Yacute -70  
KPX Oacute Ydieresis -70  
KPX Oacute comma -40  
KPX Oacute period -40  
KPX Ocircumflex A -50  
KPX Ocircumflex Aacute -50  
KPX Ocircumflex Abreve -50  
KPX Ocircumflex Acircumflex -50  
KPX Ocircumflex Adieresis -50  
KPX Ocircumflex Agrave -50  
KPX Ocircumflex Amacron -50  
KPX Ocircumflex Aogonek -50  
KPX Ocircumflex Aring -50  
KPX Ocircumflex Atilde -50  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -50  
KPX Ocircumflex X -50  
KPX Ocircumflex Y -70  
KPX Ocircumflex Yacute -70

KPX Ocircumflex Ydieresis -70  
KPX Ocircumflex comma -40  
KPX Ocircumflex period -40  
KPX Odieresis A -50  
KPX Odieresis Aacute -50  
KPX Odieresis Abreve -50  
KPX Odieresis Acircumflex -50  
KPX Odieresis Adieresis -50  
KPX Odieresis Agrave -50  
KPX Odieresis Amacron -50  
KPX Odieresis Aogonek -50  
KPX Odieresis Aring -50  
KPX Odieresis Atilde -50  
KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -50  
KPX Odieresis X -50  
KPX Odieresis Y -70  
KPX Odieresis Yacute -70  
KPX Odieresis Ydieresis -70  
KPX Odieresis comma -40  
KPX Odieresis period -40  
KPX Ograve A -50  
KPX Ograve Aacute -50  
KPX Ograve Abreve -50  
KPX Ograve Acircumflex -50  
KPX Ograve Adieresis -50  
KPX Ograve Agrave -50  
KPX Ograve Amacron -50  
KPX Ograve Aogonek -50  
KPX Ograve Aring -50  
KPX Ograve Atilde -50  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -50  
KPX Ograve X -50  
KPX Ograve Y -70  
KPX Ograve Yacute -70  
KPX Ograve Ydieresis -70  
KPX Ograve comma -40  
KPX Ograve period -40  
KPX Ohungarumlaut A -50  
KPX Ohungarumlaut Aacute -50  
KPX Ohungarumlaut Abreve -50



KPX Ohungarumlaut Acircumflex -50  
KPX Ohungarumlaut Adieresis -50  
KPX Ohungarumlaut Agrave -50  
KPX Ohungarumlaut Amacron -50  
KPX Ohungarumlaut Aogonek -50  
KPX Ohungarumlaut Aring -50  
KPX Ohungarumlaut Atilde -50  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -50  
KPX Ohungarumlaut X -50  
KPX Ohungarumlaut Y -70  
KPX Ohungarumlaut Yacute -70  
KPX Ohungarumlaut Ydieresis -70  
KPX Ohungarumlaut comma -40  
KPX Ohungarumlaut period -40  
KPX Omacron A -50  
KPX Omacron Aacute -50  
KPX Omacron Abreve -50  
KPX Omacron Acircumflex -50  
KPX Omacron Adieresis -50  
KPX Omacron Agrave -50  
KPX Omacron Amacron -50  
KPX Omacron Aogonek -50  
KPX Omacron Aring -50  
KPX Omacron Atilde -50  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -50  
KPX Omacron X -50  
KPX Omacron Y -70  
KPX Omacron Yacute -70  
KPX Omacron Ydieresis -70  
KPX Omacron comma -40  
KPX Omacron period -40  
KPX Oslash A -50  
KPX Oslash Aacute -50  
KPX Oslash Abreve -50  
KPX Oslash Acircumflex -50  
KPX Oslash Adieresis -50  
KPX Oslash Agrave -50  
KPX Oslash Amacron -50  
KPX Oslash Aogonek -50  
KPX Oslash Aring -50

KPX Oslash Atilde -50  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -50  
KPX Oslash X -50  
KPX Oslash Y -70  
KPX Oslash Yacute -70  
KPX Oslash Ydieresis -70  
KPX Oslash comma -40  
KPX Oslash period -40  
KPX Otilde A -50  
KPX Otilde Aacute -50  
KPX Otilde Abreve -50  
KPX Otilde Acircumflex -50  
KPX Otilde Adieresis -50  
KPX Otilde Agrave -50  
KPX Otilde Amacron -50  
KPX Otilde Aogonek -50  
KPX Otilde Aring -50  
KPX Otilde Atilde -50  
KPX Otilde T -40  
KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -50  
KPX Otilde X -50  
KPX Otilde Y -70  
KPX Otilde Yacute -70  
KPX Otilde Ydieresis -70  
KPX Otilde comma -40  
KPX Otilde period -40  
KPX P A -100  
KPX P Aacute -100  
KPX P Abreve -100  
KPX P Acircumflex -100  
KPX P Adieresis -100  
KPX P Agrave -100  
KPX P Amacron -100  
KPX P Aogonek -100  
KPX P Aring -100  
KPX P Atilde -100  
KPX P a -30  
KPX P aacute -30  
KPX P abreve -30  
KPX P acircumflex -30  
KPX P adieresis -30

KPX P agrave -30  
KPX P amacron -30  
KPX P aogonek -30  
KPX P aring -30  
KPX P atilde -30  
KPX P comma -120  
KPX P e -30  
KPX P eacute -30  
KPX P ecaron -30  
KPX P ecircumflex -30  
KPX P edieresis -30  
KPX P edotaccent -30  
KPX P egrave -30  
KPX P emacron -30  
KPX P eogonek -30  
KPX P o -40  
KPX P oacute -40  
KPX P ocircumflex -40  
KPX P odieresis -40  
KPX P ograve -40  
KPX P ohungarumlaut -40  
KPX P omacron -40  
KPX P oslash -40  
KPX P otilde -40  
KPX P period -120  
KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX Q comma 20  
KPX Q period 20  
KPX R O -20  
KPX R Oacute -20  
KPX R Ocircumflex -20  
KPX R Odieresis -20  
KPX R Ograve -20  
KPX R Ohungarumlaut -20  
KPX R Omacron -20  
KPX R Oslash -20  
KPX R Otilde -20  
KPX R T -20  
KPX R Tcaron -20  
KPX R Tcommaaccent -20

KPX R U -20  
KPX R Uacute -20  
KPX R Ucircumflex -20  
KPX R Udieresis -20  
KPX R Ugrave -20  
KPX R Uhungarumlaut -20  
KPX R Umacron -20  
KPX R Uogonek -20  
KPX R Uring -20  
KPX R V -50  
KPX R W -40  
KPX R Y -50  
KPX R Yacute -50  
KPX R Ydieresis -50  
KPX Racute O -20  
KPX Racute Oacute -20  
KPX Racute Ocircumflex -20  
KPX Racute Odieresis -20  
KPX Racute Ograve -20  
KPX Racute Ohungarumlaut -20  
KPX Racute Omacron -20  
KPX Racute Oslash -20  
KPX Racute Otilde -20  
KPX Racute T -20  
KPX Racute Tcaron -20  
KPX Racute Tcommaaccent -20  
KPX Racute U -20  
KPX Racute Uacute -20  
KPX Racute Ucircumflex -20  
KPX Racute Udieresis -20  
KPX Racute Ugrave -20  
KPX Racute Uhungarumlaut -20  
KPX Racute Umacron -20  
KPX Racute Uogonek -20  
KPX Racute Uring -20  
KPX Racute V -50  
KPX Racute W -40  
KPX Racute Y -50  
KPX Racute Yacute -50  
KPX Racute Ydieresis -50  
KPX Rcaron O -20  
KPX Rcaron Oacute -20  
KPX Rcaron Ocircumflex -20  
KPX Rcaron Odieresis -20  
KPX Rcaron Ograve -20  
KPX Rcaron Ohungarumlaut -20  
KPX Rcaron Omacron -20  
KPX Rcaron Oslash -20

KPX Rcaron Otilde -20  
KPX Rcaron T -20  
KPX Rcaron Tcaron -20  
KPX Rcaron Tcommaaccent -20  
KPX Rcaron U -20  
KPX Rcaron Uacute -20  
KPX Rcaron Ucircumflex -20  
KPX Rcaron Udieresis -20  
KPX Rcaron Ugrave -20  
KPX Rcaron Uhungarumlaut -20  
KPX Rcaron Umacron -20  
KPX Rcaron Uogonek -20  
KPX Rcaron Uring -20  
KPX Rcaron V -50  
KPX Rcaron W -40  
KPX Rcaron Y -50  
KPX Rcaron Yacute -50  
KPX Rcaron Ydieresis -50  
KPX Rcommaaccent O -20  
KPX Rcommaaccent Oacute -20  
KPX Rcommaaccent Ocircumflex -20  
KPX Rcommaaccent Odieresis -20  
KPX Rcommaaccent Ograve -20  
KPX Rcommaaccent Ohungarumlaut -20  
KPX Rcommaaccent Omacron -20  
KPX Rcommaaccent Oslash -20  
KPX Rcommaaccent Otilde -20  
KPX Rcommaaccent T -20  
KPX Rcommaaccent Tcaron -20  
KPX Rcommaaccent Tcommaaccent -20  
KPX Rcommaaccent U -20  
KPX Rcommaaccent Uacute -20  
KPX Rcommaaccent Ucircumflex -20  
KPX Rcommaaccent Udieresis -20  
KPX Rcommaaccent Ugrave -20  
KPX Rcommaaccent Uhungarumlaut -20  
KPX Rcommaaccent Umacron -20  
KPX Rcommaaccent Uogonek -20  
KPX Rcommaaccent Uring -20  
KPX Rcommaaccent V -50  
KPX Rcommaaccent W -40  
KPX Rcommaaccent Y -50  
KPX Rcommaaccent Yacute -50  
KPX Rcommaaccent Ydieresis -50  
KPX T A -90  
KPX T Aacute -90  
KPX T Abreve -90  
KPX T Acircumflex -90

KPX T Adieresis -90  
KPX T Agrave -90  
KPX T Amacron -90  
KPX T Aogonek -90  
KPX T Aring -90  
KPX T Atilde -90  
KPX T O -40  
KPX T Oacute -40  
KPX T Ocircumflex -40  
KPX T Odieresis -40  
KPX T Ograve -40  
KPX T Ohungarumlaut -40  
KPX T Omacron -40  
KPX T Oslash -40  
KPX T Otilde -40  
KPX T a -80  
KPX T aacute -80  
KPX T abreve -80  
KPX T acircumflex -80  
KPX T adieresis -80  
KPX T agrave -80  
KPX T amacron -80  
KPX T aogonek -80  
KPX T aring -80  
KPX T atilde -80  
KPX T colon -40  
KPX T comma -80  
KPX T e -60  
KPX T eacute -60  
KPX T ecaron -60  
KPX T ecircumflex -60  
KPX T edieresis -60  
KPX T edotaccent -60  
KPX T egrave -60  
KPX T emacron -60  
KPX T eogonek -60  
KPX T hyphen -120  
KPX T o -80  
KPX T oacute -80  
KPX T ocircumflex -80  
KPX T odieresis -80  
KPX T ograve -80  
KPX T ohungarumlaut -80  
KPX T omacron -80  
KPX T oslash -80  
KPX T otilde -80  
KPX T period -80  
KPX T r -80

KPX T racute -80  
KPX T rcommaaccent -80  
KPX T semicolon -40  
KPX T u -90  
KPX T uacute -90  
KPX T ucircumflex -90  
KPX T udieresis -90  
KPX T ugrave -90  
KPX T uhungarumlaut -90  
KPX T umacron -90  
KPX T uogonek -90  
KPX T uring -90  
KPX T w -60  
KPX T y -60  
KPX T yacute -60  
KPX T ydieresis -60  
KPX Tcaron A -90  
KPX Tcaron Aacute -90  
KPX Tcaron Abreve -90  
KPX Tcaron Acircumflex -90  
KPX Tcaron Adieresis -90  
KPX Tcaron Agrave -90  
KPX Tcaron Amacron -90  
KPX Tcaron Aogonek -90  
KPX Tcaron Aring -90  
KPX Tcaron Atilde -90  
KPX Tcaron O -40  
KPX Tcaron Oacute -40  
KPX Tcaron Ocircumflex -40  
KPX Tcaron Odieresis -40  
KPX Tcaron Ograve -40  
KPX Tcaron Ohungarumlaut -40  
KPX Tcaron Omacron -40  
KPX Tcaron Oslash -40  
KPX Tcaron Otilde -40  
KPX Tcaron a -80  
KPX Tcaron aacute -80  
KPX Tcaron abreve -80  
KPX Tcaron acircumflex -80  
KPX Tcaron adieresis -80  
KPX Tcaron agrave -80  
KPX Tcaron amacron -80  
KPX Tcaron aogonek -80  
KPX Tcaron aring -80  
KPX Tcaron atilde -80  
KPX Tcaron colon -40  
KPX Tcaron comma -80  
KPX Tcaron e -60

KPX Tcaron eacute -60  
KPX Tcaron ecaron -60  
KPX Tcaron ecircumflex -60  
KPX Tcaron edieresis -60  
KPX Tcaron edotaccent -60  
KPX Tcaron egrave -60  
KPX Tcaron emacron -60  
KPX Tcaron eogonek -60  
KPX Tcaron hyphen -120  
KPX Tcaron o -80  
KPX Tcaron oacute -80  
KPX Tcaron ocircumflex -80  
KPX Tcaron odieresis -80  
KPX Tcaron ograve -80  
KPX Tcaron ohungarumlaut -80  
KPX Tcaron omacron -80  
KPX Tcaron oslash -80  
KPX Tcaron otilde -80  
KPX Tcaron period -80  
KPX Tcaron r -80  
KPX Tcaron racute -80  
KPX Tcaron rcommaaccent -80  
KPX Tcaron semicolon -40  
KPX Tcaron u -90  
KPX Tcaron uacute -90  
KPX Tcaron ucircumflex -90  
KPX Tcaron udieresis -90  
KPX Tcaron ugrave -90  
KPX Tcaron uhungarumlaut -90  
KPX Tcaron umacron -90  
KPX Tcaron uogonek -90  
KPX Tcaron uring -90  
KPX Tcaron w -60  
KPX Tcaron y -60  
KPX Tcaron yacute -60  
KPX Tcaron ydieresis -60  
KPX Tcommaaccent A -90  
KPX Tcommaaccent Aacute -90  
KPX Tcommaaccent Abreve -90  
KPX Tcommaaccent Acircumflex -90  
KPX Tcommaaccent Adieresis -90  
KPX Tcommaaccent Agrave -90  
KPX Tcommaaccent Amacron -90  
KPX Tcommaaccent Aogonek -90  
KPX Tcommaaccent Aring -90  
KPX Tcommaaccent Atilde -90  
KPX Tcommaaccent O -40  
KPX Tcommaaccent Oacute -40



KPX Tcommaaccent Ocircumflex -40  
KPX Tcommaaccent Odieresis -40  
KPX Tcommaaccent Ograve -40  
KPX Tcommaaccent Ohungarumlaut -40  
KPX Tcommaaccent Omacron -40  
KPX Tcommaaccent Oslash -40  
KPX Tcommaaccent Otilde -40  
KPX Tcommaaccent a -80  
KPX Tcommaaccent aacute -80  
KPX Tcommaaccent abreve -80  
KPX Tcommaaccent acircumflex -80  
KPX Tcommaaccent adieresis -80  
KPX Tcommaaccent agrave -80  
KPX Tcommaaccent amacron -80  
KPX Tcommaaccent aogonek -80  
KPX Tcommaaccent aring -80  
KPX Tcommaaccent atilde -80  
KPX Tcommaaccent colon -40  
KPX Tcommaaccent comma -80  
KPX Tcommaaccent e -60  
KPX Tcommaaccent eacute -60  
KPX Tcommaaccent ecaron -60  
KPX Tcommaaccent ecircumflex -60  
KPX Tcommaaccent edieresis -60  
KPX Tcommaaccent edotaccent -60  
KPX Tcommaaccent egrave -60  
KPX Tcommaaccent emacron -60  
KPX Tcommaaccent eogonek -60  
KPX Tcommaaccent hyphen -120  
KPX Tcommaaccent o -80  
KPX Tcommaaccent oacute -80  
KPX Tcommaaccent ocircumflex -80  
KPX Tcommaaccent odieresis -80  
KPX Tcommaaccent ograve -80  
KPX Tcommaaccent ohungarumlaut -80  
KPX Tcommaaccent omacron -80  
KPX Tcommaaccent oslash -80  
KPX Tcommaaccent otilde -80  
KPX Tcommaaccent period -80  
KPX Tcommaaccent r -80  
KPX Tcommaaccent racute -80  
KPX Tcommaaccent rcommaaccent -80  
KPX Tcommaaccent semicolon -40  
KPX Tcommaaccent u -90  
KPX Tcommaaccent uacute -90  
KPX Tcommaaccent ucircumflex -90  
KPX Tcommaaccent udieresis -90  
KPX Tcommaaccent ugrave -90

KPX Tcommaaccent uhungarumlaut -90  
KPX Tcommaaccent umacron -90  
KPX Tcommaaccent uogonek -90  
KPX Tcommaaccent uring -90  
KPX Tcommaaccent w -60  
KPX Tcommaaccent y -60  
KPX Tcommaaccent yacute -60  
KPX Tcommaaccent ydieresis -60  
KPX U A -50  
KPX U Aacute -50  
KPX U Abreve -50  
KPX U Acircumflex -50  
KPX U Adieresis -50  
KPX U Agrave -50  
KPX U Amacron -50  
KPX U Aogonek -50  
KPX U Aring -50  
KPX U Atilde -50  
KPX U comma -30  
KPX U period -30  
KPX Uacute A -50  
KPX Uacute Aacute -50  
KPX Uacute Abreve -50  
KPX Uacute Acircumflex -50  
KPX Uacute Adieresis -50  
KPX Uacute Agrave -50  
KPX Uacute Amacron -50  
KPX Uacute Aogonek -50  
KPX Uacute Aring -50  
KPX Uacute Atilde -50  
KPX Uacute comma -30  
KPX Uacute period -30  
KPX Ucircumflex A -50  
KPX Ucircumflex Aacute -50  
KPX Ucircumflex Abreve -50  
KPX Ucircumflex Acircumflex -50  
KPX Ucircumflex Adieresis -50  
KPX Ucircumflex Agrave -50  
KPX Ucircumflex Amacron -50  
KPX Ucircumflex Aogonek -50  
KPX Ucircumflex Aring -50  
KPX Ucircumflex Atilde -50  
KPX Ucircumflex comma -30  
KPX Ucircumflex period -30  
KPX Udieresis A -50  
KPX Udieresis Aacute -50  
KPX Udieresis Abreve -50  
KPX Udieresis Acircumflex -50

KPX Udieresis Adieresis -50  
KPX Udieresis Agrave -50  
KPX Udieresis Amacron -50  
KPX Udieresis Aogonek -50  
KPX Udieresis Aring -50  
KPX Udieresis Atilde -50  
KPX Udieresis comma -30  
KPX Udieresis period -30  
KPX Ugrave A -50  
KPX Ugrave Aacute -50  
KPX Ugrave Abreve -50  
KPX Ugrave Acircumflex -50  
KPX Ugrave Adieresis -50  
KPX Ugrave Agrave -50  
KPX Ugrave Amacron -50  
KPX Ugrave Aogonek -50  
KPX Ugrave Aring -50  
KPX Ugrave Atilde -50  
KPX Ugrave comma -30  
KPX Ugrave period -30  
KPX Uhungarumlaut A -50  
KPX Uhungarumlaut Aacute -50  
KPX Uhungarumlaut Abreve -50  
KPX Uhungarumlaut Acircumflex -50  
KPX Uhungarumlaut Adieresis -50  
KPX Uhungarumlaut Agrave -50  
KPX Uhungarumlaut Amacron -50  
KPX Uhungarumlaut Aogonek -50  
KPX Uhungarumlaut Aring -50  
KPX Uhungarumlaut Atilde -50  
KPX Uhungarumlaut comma -30  
KPX Uhungarumlaut period -30  
KPX Umacron A -50  
KPX Umacron Aacute -50  
KPX Umacron Abreve -50  
KPX Umacron Acircumflex -50  
KPX Umacron Adieresis -50  
KPX Umacron Agrave -50  
KPX Umacron Amacron -50  
KPX Umacron Aogonek -50  
KPX Umacron Aring -50  
KPX Umacron Atilde -50  
KPX Umacron comma -30  
KPX Umacron period -30  
KPX Uogonek A -50  
KPX Uogonek Aacute -50  
KPX Uogonek Abreve -50  
KPX Uogonek Acircumflex -50

KPX Uogonek Adieresis -50  
KPX Uogonek Agrave -50  
KPX Uogonek Amacron -50  
KPX Uogonek Aogonek -50  
KPX Uogonek Aring -50  
KPX Uogonek Atilde -50  
KPX Uogonek comma -30  
KPX Uogonek period -30  
KPX Uring A -50  
KPX Uring Aacute -50  
KPX Uring Abreve -50  
KPX Uring Acircumflex -50  
KPX Uring Adieresis -50  
KPX Uring Agrave -50  
KPX Uring Amacron -50  
KPX Uring Aogonek -50  
KPX Uring Aring -50  
KPX Uring Atilde -50  
KPX Uring comma -30  
KPX Uring period -30  
KPX V A -80  
KPX V Aacute -80  
KPX V Abreve -80  
KPX V Acircumflex -80  
KPX V Adieresis -80  
KPX V Agrave -80  
KPX V Amacron -80  
KPX V Aogonek -80  
KPX V Aring -80  
KPX V Atilde -80  
KPX V G -50  
KPX V Gbreve -50  
KPX V Gcommaaccent -50  
KPX V O -50  
KPX V Oacute -50  
KPX V Ocircumflex -50  
KPX V Odieresis -50  
KPX V Ograve -50  
KPX V Ohungarumlaut -50  
KPX V Omacron -50  
KPX V Oslash -50  
KPX V Otilde -50  
KPX V a -60  
KPX V aacute -60  
KPX V abreve -60  
KPX V acircumflex -60  
KPX V adieresis -60  
KPX V agrave -60

KPX V amacron -60  
KPX V aogonek -60  
KPX V aring -60  
KPX V atilde -60  
KPX V colon -40  
KPX V comma -120  
KPX V e -50  
KPX V eacute -50  
KPX V ecaron -50  
KPX V ecircumflex -50  
KPX V edieresis -50  
KPX V edotaccent -50  
KPX V egrave -50  
KPX V emacron -50  
KPX V eogonek -50  
KPX V hyphen -80  
KPX V o -90  
KPX V oacute -90  
KPX V ocircumflex -90  
KPX V odieresis -90  
KPX V ograve -90  
KPX V ohungarumlaut -90  
KPX V omacron -90  
KPX V oslash -90  
KPX V otilde -90  
KPX V period -120  
KPX V semicolon -40  
KPX V u -60  
KPX V uacute -60  
KPX V ucircumflex -60  
KPX V udieresis -60  
KPX V ugrave -60  
KPX V uhungarumlaut -60  
KPX V umacron -60  
KPX V uogonek -60  
KPX V uring -60  
KPX W A -60  
KPX W Aacute -60  
KPX W Abreve -60  
KPX W Acircumflex -60  
KPX W Adieresis -60  
KPX W Agrave -60  
KPX W Amacron -60  
KPX W Aogonek -60  
KPX W Aring -60  
KPX W Atilde -60  
KPX W O -20  
KPX W Oacute -20

KPX W Ocircumflex -20  
KPX W Odieresis -20  
KPX W Ograve -20  
KPX W Ohungarumlaut -20  
KPX W Omacron -20  
KPX W Oslash -20  
KPX W Otilde -20  
KPX W a -40  
KPX W aacute -40  
KPX W abreve -40  
KPX W acircumflex -40  
KPX W adieresis -40  
KPX W agrave -40  
KPX W amacron -40  
KPX W aogonek -40  
KPX W aring -40  
KPX W atilde -40  
KPX W colon -10  
KPX W comma -80  
KPX W e -35  
KPX W eacute -35  
KPX W ecaron -35  
KPX W ecircumflex -35  
KPX W edieresis -35  
KPX W edotaccent -35  
KPX W egrave -35  
KPX W emacron -35  
KPX W eogonek -35  
KPX W hyphen -40  
KPX W o -60  
KPX W oacute -60  
KPX W ocircumflex -60  
KPX W odieresis -60  
KPX W ograve -60  
KPX W ohungarumlaut -60  
KPX W omacron -60  
KPX W oslash -60  
KPX W otilde -60  
KPX W period -80  
KPX W semicolon -10  
KPX W u -45  
KPX W uacute -45  
KPX W ucircumflex -45  
KPX W udieresis -45  
KPX W ugrave -45  
KPX W uhungarumlaut -45  
KPX W umacron -45  
KPX W uogonek -45

KPX W uring -45  
KPX W y -20  
KPX W yacute -20  
KPX W ydieresis -20  
KPX Y A -110  
KPX Y Aacute -110  
KPX Y Abreve -110  
KPX Y Acircumflex -110  
KPX Y Adieresis -110  
KPX Y Agrave -110  
KPX Y Amacron -110  
KPX Y Aogonek -110  
KPX Y Aring -110  
KPX Y Atilde -110  
KPX Y O -70  
KPX Y Oacute -70  
KPX Y Ocircumflex -70  
KPX Y Odieresis -70  
KPX Y Ograve -70  
KPX Y Ohungarumlaut -70  
KPX Y Omacron -70  
KPX Y Oslash -70  
KPX Y Otilde -70  
KPX Y a -90  
KPX Y aacute -90  
KPX Y abreve -90  
KPX Y acircumflex -90  
KPX Y adieresis -90  
KPX Y agrave -90  
KPX Y amacron -90  
KPX Y aogonek -90  
KPX Y aring -90  
KPX Y atilde -90  
KPX Y colon -50  
KPX Y comma -100  
KPX Y e -80  
KPX Y eacute -80  
KPX Y ecaron -80  
KPX Y ecircumflex -80  
KPX Y edieresis -80  
KPX Y edotaccent -80  
KPX Y egrave -80  
KPX Y emacron -80  
KPX Y eogonek -80  
KPX Y o -100  
KPX Y oacute -100  
KPX Y ocircumflex -100  
KPX Y odieresis -100

KPX Y ograve -100  
KPX Y ohungarumlaut -100  
KPX Y omacron -100  
KPX Y oslash -100  
KPX Y otilde -100  
KPX Y period -100  
KPX Y semicolon -50  
KPX Y u -100  
KPX Y uacute -100  
KPX Y ucircumflex -100  
KPX Y udieresis -100  
KPX Y ugrave -100  
KPX Y uhungarumlaut -100  
KPX Y umacron -100  
KPX Y uogonek -100  
KPX Y uring -100  
KPX Yacute A -110  
KPX Yacute Aacute -110  
KPX Yacute Abreve -110  
KPX Yacute Acircumflex -110  
KPX Yacute Adieresis -110  
KPX Yacute Agrave -110  
KPX Yacute Amacron -110  
KPX Yacute Aogonek -110  
KPX Yacute Aring -110  
KPX Yacute Atilde -110  
KPX Yacute O -70  
KPX Yacute Oacute -70  
KPX Yacute Ocircumflex -70  
KPX Yacute Odieresis -70  
KPX Yacute Ograve -70  
KPX Yacute Ohungarumlaut -70  
KPX Yacute Omacron -70  
KPX Yacute Oslash -70  
KPX Yacute Otilde -70  
KPX Yacute a -90  
KPX Yacute aacute -90  
KPX Yacute abreve -90  
KPX Yacute acircumflex -90  
KPX Yacute adieresis -90  
KPX Yacute agrave -90  
KPX Yacute amacron -90  
KPX Yacute aogonek -90  
KPX Yacute aring -90  
KPX Yacute atilde -90  
KPX Yacute colon -50  
KPX Yacute comma -100  
KPX Yacute e -80



KPX Yacute eacute -80  
KPX Yacute ecaron -80  
KPX Yacute ecircumflex -80  
KPX Yacute edieresis -80  
KPX Yacute edotaccent -80  
KPX Yacute egrave -80  
KPX Yacute emacron -80  
KPX Yacute eogonek -80  
KPX Yacute o -100  
KPX Yacute oacute -100  
KPX Yacute ocircumflex -100  
KPX Yacute odieresis -100  
KPX Yacute ograve -100  
KPX Yacute ohungarumlaut -100  
KPX Yacute omacron -100  
KPX Yacute oslash -100  
KPX Yacute otilde -100  
KPX Yacute period -100  
KPX Yacute semicolon -50  
KPX Yacute u -100  
KPX Yacute uacute -100  
KPX Yacute ucircumflex -100  
KPX Yacute udieresis -100  
KPX Yacute ugrave -100  
KPX Yacute uhungarumlaut -100  
KPX Yacute umacron -100  
KPX Yacute uogonek -100  
KPX Yacute uring -100  
KPX Ydieresis A -110  
KPX Ydieresis Aacute -110  
KPX Ydieresis Abreve -110  
KPX Ydieresis Acircumflex -110  
KPX Ydieresis Adieresis -110  
KPX Ydieresis Agrave -110  
KPX Ydieresis Amacron -110  
KPX Ydieresis Aogonek -110  
KPX Ydieresis Aring -110  
KPX Ydieresis Atilde -110  
KPX Ydieresis O -70  
KPX Ydieresis Oacute -70  
KPX Ydieresis Ocircumflex -70  
KPX Ydieresis Odieresis -70  
KPX Ydieresis Ograve -70  
KPX Ydieresis Ohungarumlaut -70  
KPX Ydieresis Omacron -70  
KPX Ydieresis Oslash -70  
KPX Ydieresis Otilde -70  
KPX Ydieresis a -90

KPX Ydieresis aacute -90  
KPX Ydieresis abreve -90  
KPX Ydieresis acircumflex -90  
KPX Ydieresis adieresis -90  
KPX Ydieresis agrave -90  
KPX Ydieresis amacron -90  
KPX Ydieresis aogonek -90  
KPX Ydieresis aring -90  
KPX Ydieresis atilde -90  
KPX Ydieresis colon -50  
KPX Ydieresis comma -100  
KPX Ydieresis e -80  
KPX Ydieresis eacute -80  
KPX Ydieresis ecaron -80  
KPX Ydieresis ecircumflex -80  
KPX Ydieresis edieresis -80  
KPX Ydieresis edotaccent -80  
KPX Ydieresis egrave -80  
KPX Ydieresis emacron -80  
KPX Ydieresis eogonek -80  
KPX Ydieresis o -100  
KPX Ydieresis oacute -100  
KPX Ydieresis ocircumflex -100  
KPX Ydieresis odieresis -100  
KPX Ydieresis ograve -100  
KPX Ydieresis ohungarumlaut -100  
KPX Ydieresis omacron -100  
KPX Ydieresis oslash -100  
KPX Ydieresis otilde -100  
KPX Ydieresis period -100  
KPX Ydieresis semicolon -50  
KPX Ydieresis u -100  
KPX Ydieresis uacute -100  
KPX Ydieresis ucircumflex -100  
KPX Ydieresis udieresis -100  
KPX Ydieresis ugrave -100  
KPX Ydieresis uhungarumlaut -100  
KPX Ydieresis umacron -100  
KPX Ydieresis uogonek -100  
KPX Ydieresis uring -100  
KPX a g -10  
KPX a gbreve -10  
KPX a gcommaaccent -10  
KPX a v -15  
KPX a w -15  
KPX a y -20  
KPX a yacute -20  
KPX a ydieresis -20

KPX aacute g -10  
KPX aacute gbreve -10  
KPX aacute gcommaaccent -10  
KPX aacute v -15  
KPX aacute w -15  
KPX aacute y -20  
KPX aacute yacute -20  
KPX aacute ydieresis -20  
KPX abreve g -10  
KPX abreve gbreve -10  
KPX abreve gcommaaccent -10  
KPX abreve v -15  
KPX abreve w -15  
KPX abreve y -20  
KPX abreve yacute -20  
KPX abreve ydieresis -20  
KPX acircumflex g -10  
KPX acircumflex gbreve -10  
KPX acircumflex gcommaaccent -10  
KPX acircumflex v -15  
KPX acircumflex w -15  
KPX acircumflex y -20  
KPX acircumflex yacute -20  
KPX acircumflex ydieresis -20  
KPX adieresis g -10  
KPX adieresis gbreve -10  
KPX adieresis gcommaaccent -10  
KPX adieresis v -15  
KPX adieresis w -15  
KPX adieresis y -20  
KPX adieresis yacute -20  
KPX adieresis ydieresis -20  
KPX agrave g -10  
KPX agrave gbreve -10  
KPX agrave gcommaaccent -10  
KPX agrave v -15  
KPX agrave w -15  
KPX agrave y -20  
KPX agrave yacute -20  
KPX agrave ydieresis -20  
KPX amacron g -10  
KPX amacron gbreve -10  
KPX amacron gcommaaccent -10  
KPX amacron v -15  
KPX amacron w -15  
KPX amacron y -20  
KPX amacron yacute -20  
KPX amacron ydieresis -20

KPX aogonek g -10  
KPX aogonek gbreve -10  
KPX aogonek gcommaaccent -10  
KPX aogonek v -15  
KPX aogonek w -15  
KPX aogonek y -20  
KPX aogonek yacute -20  
KPX aogonek ydieresis -20  
KPX aring g -10  
KPX aring gbreve -10  
KPX aring gcommaaccent -10  
KPX aring v -15  
KPX aring w -15  
KPX aring y -20  
KPX aring yacute -20  
KPX aring ydieresis -20  
KPX atilde g -10  
KPX atilde gbreve -10  
KPX atilde gcommaaccent -10  
KPX atilde v -15  
KPX atilde w -15  
KPX atilde y -20  
KPX atilde yacute -20  
KPX atilde ydieresis -20  
KPX b l -10  
KPX b lacute -10  
KPX b lcommaaccent -10  
KPX b lslash -10  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX b v -20  
KPX b y -20  
KPX b yacute -20  
KPX b ydieresis -20  
KPX c h -10  
KPX c k -20  
KPX c kcommaaccent -20  
KPX c l -20  
KPX c lacute -20  
KPX c lcommaaccent -20  
KPX c lslash -20

KPX c y -10  
KPX c yacute -10  
KPX c ydieresis -10  
KPX cacute h -10  
KPX cacute k -20  
KPX cacute kcommaaccent -20  
KPX cacute l -20  
KPX cacute lacute -20  
KPX cacute lcommaaccent -20  
KPX cacute lslash -20  
KPX cacute y -10  
KPX cacute yacute -10  
KPX cacute ydieresis -10  
KPX ccaron h -10  
KPX ccaron k -20  
KPX ccaron kcommaaccent -20  
KPX ccaron l -20  
KPX ccaron lacute -20  
KPX ccaron lcommaaccent -20  
KPX ccaron lslash -20  
KPX ccaron y -10  
KPX ccaron yacute -10  
KPX ccaron ydieresis -10  
KPX ccedilla h -10  
KPX ccedilla k -20  
KPX ccedilla kcommaaccent -20  
KPX ccedilla l -20  
KPX ccedilla lacute -20  
KPX ccedilla lcommaaccent -20  
KPX ccedilla lslash -20  
KPX ccedilla y -10  
KPX ccedilla yacute -10  
KPX ccedilla ydieresis -10  
KPX colon space -40  
KPX comma quotedblright -120  
KPX comma quoteright -120  
KPX comma space -40  
KPX d d -10  
KPX d dcroat -10  
KPX d v -15  
KPX d w -15  
KPX d y -15  
KPX d yacute -15  
KPX d ydieresis -15  
KPX dcroat d -10  
KPX dcroat dcroat -10  
KPX dcroat v -15  
KPX dcroat w -15

KPX dcroat y -15  
KPx dcroat yacute -15  
KPx dcroat ydieresis -15  
KPx e comma 10  
KPx e period 20  
KPx e v -15  
KPx e w -15  
KPx e x -15  
KPx e y -15  
KPx e yacute -15  
KPx e ydieresis -15  
KPx eacute comma 10  
KPx eacute period 20  
KPx eacute v -15  
KPx eacute w -15  
KPx eacute x -15  
KPx eacute y -15  
KPx eacute yacute -15  
KPx eacute ydieresis -15  
KPx ecaron comma 10  
KPx ecaron period 20  
KPx ecaron v -15  
KPx ecaron w -15  
KPx ecaron x -15  
KPx ecaron y -15  
KPx ecaron yacute -15  
KPx ecaron ydieresis -15  
KPx ecircumflex comma 10  
KPx ecircumflex period 20  
KPx ecircumflex v -15  
KPx ecircumflex w -15  
KPx ecircumflex x -15  
KPx ecircumflex y -15  
KPx ecircumflex yacute -15  
KPx ecircumflex ydieresis -15  
KPx edieresis comma 10  
KPx edieresis period 20  
KPx edieresis v -15  
KPx edieresis w -15  
KPx edieresis x -15  
KPx edieresis y -15  
KPx edieresis yacute -15  
KPx edieresis ydieresis -15  
KPx edotaccent comma 10  
KPx edotaccent period 20  
KPx edotaccent v -15  
KPx edotaccent w -15  
KPx edotaccent x -15

KPX edotaccent y -15  
KPX edotaccent yacute -15  
KPX edotaccent ydieresis -15  
KPX egrave comma 10  
KPX egrave period 20  
KPX egrave v -15  
KPX egrave w -15  
KPX egrave x -15  
KPX egrave y -15  
KPX egrave yacute -15  
KPX egrave ydieresis -15  
KPX emacron comma 10  
KPX emacron period 20  
KPX emacron v -15  
KPX emacron w -15  
KPX emacron x -15  
KPX emacron y -15  
KPX emacron yacute -15  
KPX emacron ydieresis -15  
KPX eogonek comma 10  
KPX eogonek period 20  
KPX eogonek v -15  
KPX eogonek w -15  
KPX eogonek x -15  
KPX eogonek y -15  
KPX eogonek yacute -15  
KPX eogonek ydieresis -15  
KPX f comma -10  
KPX f e -10  
KPX f eacute -10  
KPX f ecaron -10  
KPX f ecircumflex -10  
KPX f edieresis -10  
KPX f edotaccent -10  
KPX f egrave -10  
KPX f emacron -10  
KPX f eogonek -10  
KPX f o -20  
KPX f oacute -20  
KPX f ocircumflex -20  
KPX f odieresis -20  
KPX f ograve -20  
KPX f ohungarumlaut -20  
KPX f omacron -20  
KPX f oslash -20  
KPX f otilde -20  
KPX f period -10  
KPX f quotedblright 30

KPX f quoteright 30  
KPX g e 10  
KPX g eacute 10  
KPX g ecaron 10  
KPX g ecircumflex 10  
KPX g edieresis 10  
KPX g edotaccent 10  
KPX g egrave 10  
KPX g emacron 10  
KPX g eogonek 10  
KPX g g -10  
KPX g gbreve -10  
KPX g gcommaaccent -10  
KPX gbreve e 10  
KPX gbreve eacute 10  
KPX gbreve ecaron 10  
KPX gbreve ecircumflex 10  
KPX gbreve edieresis 10  
KPX gbreve edotaccent 10  
KPX gbreve egrave 10  
KPX gbreve emacron 10  
KPX gbreve eogonek 10  
KPX gbreve g -10  
KPX gbreve gbreve -10  
KPX gbreve gcommaaccent -10  
KPX gcommaaccent e 10  
KPX gcommaaccent eacute 10  
KPX gcommaaccent ecaron 10  
KPX gcommaaccent ecircumflex 10  
KPX gcommaaccent edieresis 10  
KPX gcommaaccent edotaccent 10  
KPX gcommaaccent egrave 10  
KPX gcommaaccent emacron 10  
KPX gcommaaccent eogonek 10  
KPX gcommaaccent g -10  
KPX gcommaaccent gbreve -10  
KPX gcommaaccent gcommaaccent -10  
KPX h y -20  
KPX h yacute -20  
KPX h ydieresis -20  
KPX k o -15  
KPX k oacute -15  
KPX k ocircumflex -15  
KPX k odieresis -15  
KPX k ograve -15  
KPX k ohungarumlaut -15  
KPX k omacron -15  
KPX k oslash -15



KPX k otilde -15  
KPX kcommaaccent o -15  
KPX kcommaaccent oacute -15  
KPX kcommaaccent ocircumflex -15  
KPX kcommaaccent odieresis -15  
KPX kcommaaccent ograve -15  
KPX kcommaaccent ohungarumlaut -15  
KPX kcommaaccent omacron -15  
KPX kcommaaccent oslash -15  
KPX kcommaaccent otilde -15  
KPX l w -15  
KPX l y -15  
KPX l yacute -15  
KPX l ydieresis -15  
KPX lacute w -15  
KPX lacute y -15  
KPX lacute yacute -15  
KPX lacute ydieresis -15  
KPX lcommaaccent w -15  
KPX lcommaaccent y -15  
KPX lcommaaccent yacute -15  
KPX lcommaaccent ydieresis -15  
KPX lslash w -15  
KPX lslash y -15  
KPX lslash yacute -15  
KPX lslash ydieresis -15  
KPX m u -20  
KPX m uacute -20  
KPX m ucircumflex -20  
KPX m udieresis -20  
KPX m ugrave -20  
KPX m uhungarumlaut -20  
KPX m umacron -20  
KPX m uogonek -20  
KPX m uring -20  
KPX m y -30  
KPX m yacute -30  
KPX m ydieresis -30  
KPX n u -10  
KPX n uacute -10  
KPX n ucircumflex -10  
KPX n udieresis -10  
KPX n ugrave -10  
KPX n uhungarumlaut -10  
KPX n umacron -10  
KPX n uogonek -10  
KPX n uring -10  
KPX n v -40

KPX n y -20  
KPX n yacute -20  
KPX n ydieresis -20  
KPX nacute u -10  
KPX nacute uacute -10  
KPX nacute ucircumflex -10  
KPX nacute udieresis -10  
KPX nacute ugrave -10  
KPX nacute uhungarumlaut -10  
KPX nacute umacron -10  
KPX nacute uogonek -10  
KPX nacute uring -10  
KPX nacute v -40  
KPX nacute y -20  
KPX nacute yacute -20  
KPX nacute ydieresis -20  
KPX ncaron u -10  
KPX ncaron uacute -10  
KPX ncaron ucircumflex -10  
KPX ncaron udieresis -10  
KPX ncaron ugrave -10  
KPX ncaron uhungarumlaut -10  
KPX ncaron umacron -10  
KPX ncaron uogonek -10  
KPX ncaron uring -10  
KPX ncaron v -40  
KPX ncaron y -20  
KPX ncaron yacute -20  
KPX ncaron ydieresis -20  
KPX ncommaaccent u -10  
KPX ncommaaccent uacute -10  
KPX ncommaaccent ucircumflex -10  
KPX ncommaaccent udieresis -10  
KPX ncommaaccent ugrave -10  
KPX ncommaaccent uhungarumlaut -10  
KPX ncommaaccent umacron -10  
KPX ncommaaccent uogonek -10  
KPX ncommaaccent uring -10  
KPX ncommaaccent v -40  
KPX ncommaaccent y -20  
KPX ncommaaccent yacute -20  
KPX ncommaaccent ydieresis -20  
KPX ntilde u -10  
KPX ntilde uacute -10  
KPX ntilde ucircumflex -10  
KPX ntilde udieresis -10  
KPX ntilde ugrave -10  
KPX ntilde uhungarumlaut -10

KPX ntilde umacron -10  
KPX ntilde uogonek -10  
KPX ntilde uring -10  
KPX ntilde v -40  
KPX ntilde y -20  
KPX ntilde yacute -20  
KPX ntilde ydieresis -20  
KPX o v -20  
KPX o w -15  
KPX o x -30  
KPX o y -20  
KPX o yacute -20  
KPX o ydieresis -20  
KPX oacute v -20  
KPX oacute w -15  
KPX oacute x -30  
KPX oacute y -20  
KPX oacute yacute -20  
KPX oacute ydieresis -20  
KPX ocircumflex v -20  
KPX ocircumflex w -15  
KPX ocircumflex x -30  
KPX ocircumflex y -20  
KPX ocircumflex yacute -20  
KPX ocircumflex ydieresis -20  
KPX odieresis v -20  
KPX odieresis w -15  
KPX odieresis x -30  
KPX odieresis y -20  
KPX odieresis yacute -20  
KPX odieresis ydieresis -20  
KPX ograve v -20  
KPX ograve w -15  
KPX ograve x -30  
KPX ograve y -20  
KPX ograve yacute -20  
KPX ograve ydieresis -20  
KPX ohungarumlaut v -20  
KPX ohungarumlaut w -15  
KPX ohungarumlaut x -30  
KPX ohungarumlaut y -20  
KPX ohungarumlaut yacute -20  
KPX ohungarumlaut ydieresis -20  
KPX omacron v -20  
KPX omacron w -15  
KPX omacron x -30  
KPX omacron y -20  
KPX omacron yacute -20

KPX omacron ydieresis -20  
KPX oslash v -20  
KPX oslash w -15  
KPX oslash x -30  
KPX oslash y -20  
KPX oslash yacute -20  
KPX oslash ydieresis -20  
KPX otilde v -20  
KPX otilde w -15  
KPX otilde x -30  
KPX otilde y -20  
KPX otilde yacute -20  
KPX otilde ydieresis -20  
KPX p y -15  
KPX p yacute -15  
KPX p ydieresis -15  
KPX period quotedblright -120  
KPX period quoteright -120  
KPX period space -40  
KPX quotedblright space -80  
KPX quoteleft quoteleft -46  
KPX quoteright d -80  
KPX quoteright dcroat -80  
KPX quoteright l -20  
KPX quoteright lacute -20  
KPX quoteright lcommaaccent -20  
KPX quoteright lslash -20  
KPX quoteright quoteright -46  
KPX quoteright r -40  
KPX quoteright racute -40  
KPX quoteright rcaron -40  
KPX quoteright rcommaaccent -40  
KPX quoteright s -60  
KPX quoteright sacute -60  
KPX quoteright scaron -60  
KPX quoteright scedilla -60  
KPX quoteright scommaaccent -60  
KPX quoteright space -80  
KPX quoteright v -20  
KPX r c -20  
KPX r cacute -20  
KPX r ccaron -20  
KPX r ccedilla -20  
KPX r comma -60  
KPX r d -20  
KPX r dcroat -20  
KPX r g -15  
KPX r gbreve -15

KPX r gcommaaccent -15  
KPX r hyphen -20  
KPX r o -20  
KPX r oacute -20  
KPX r ocircumflex -20  
KPX r odieresis -20  
KPX r ograve -20  
KPX r ohungarumlaut -20  
KPX r omacron -20  
KPX r oslash -20  
KPX r otilde -20  
KPX r period -60  
KPX r q -20  
KPX r s -15  
KPX r sacute -15  
KPX r scaron -15  
KPX r scedilla -15  
KPX r scommaaccent -15  
KPX r t 20  
KPX r tcommaaccent 20  
KPX r v 10  
KPX r y 10  
KPX r yacute 10  
KPX r ydieresis 10  
KPX racute c -20  
KPX racute cacute -20  
KPX racute ccaron -20  
KPX racute ccedilla -20  
KPX racute comma -60  
KPX racute d -20  
KPX racute dcroat -20  
KPX racute g -15  
KPX racute gbreve -15  
KPX racute gcommaaccent -15  
KPX racute hyphen -20  
KPX racute o -20  
KPX racute oacute -20  
KPX racute ocircumflex -20  
KPX racute odieresis -20  
KPX racute ograve -20  
KPX racute ohungarumlaut -20  
KPX racute omacron -20  
KPX racute oslash -20  
KPX racute otilde -20  
KPX racute period -60  
KPX racute q -20  
KPX racute s -15  
KPX racute sacute -15

KPX racute scaron -15  
KPX racute scedilla -15  
KPX racute scommaaccent -15  
KPX racute t 20  
KPX racute tcommaaccent 20  
KPX racute v 10  
KPX racute y 10  
KPX racute yacute 10  
KPX racute ydieresis 10  
KPX rcaron c -20  
KPX rcaron cacute -20  
KPX rcaron ccaron -20  
KPX rcaron ccedilla -20  
KPX rcaron comma -60  
KPX rcaron d -20  
KPX rcaron deroat -20  
KPX rcaron g -15  
KPX rcaron gbreve -15  
KPX rcaron gcommaaccent -15  
KPX rcaron hyphen -20  
KPX rcaron o -20  
KPX rcaron oacute -20  
KPX rcaron ocircumflex -20  
KPX rcaron odieresis -20  
KPX rcaron ograve -20  
KPX rcaron ohungarumlaut -20  
KPX rcaron omacron -20  
KPX rcaron oslash -20  
KPX rcaron otilde -20  
KPX rcaron period -60  
KPX rcaron q -20  
KPX rcaron s -15  
KPX rcaron sacute -15  
KPX rcaron scaron -15  
KPX rcaron scedilla -15  
KPX rcaron scommaaccent -15  
KPX rcaron t 20  
KPX rcaron tcommaaccent 20  
KPX rcaron v 10  
KPX rcaron y 10  
KPX rcaron yacute 10  
KPX rcaron ydieresis 10  
KPX rcommaaccent c -20  
KPX rcommaaccent cacute -20  
KPX rcommaaccent ccaron -20  
KPX rcommaaccent ccedilla -20  
KPX rcommaaccent comma -60  
KPX rcommaaccent d -20

KPX rcommaaccent dcroat -20  
KPX rcommaaccent g -15  
KPX rcommaaccent gbreve -15  
KPX rcommaaccent gcommaaccent -15  
KPX rcommaaccent hyphen -20  
KPX rcommaaccent o -20  
KPX rcommaaccent oacute -20  
KPX rcommaaccent ocircumflex -20  
KPX rcommaaccent odieresis -20  
KPX rcommaaccent ograve -20  
KPX rcommaaccent ohungarumlaut -20  
KPX rcommaaccent omacron -20  
KPX rcommaaccent oslash -20  
KPX rcommaaccent otilde -20  
KPX rcommaaccent period -60  
KPX rcommaaccent q -20  
KPX rcommaaccent s -15  
KPX rcommaaccent sacute -15  
KPX rcommaaccent scaron -15  
KPX rcommaaccent scedilla -15  
KPX rcommaaccent scommaaccent -15  
KPX rcommaaccent t 20  
KPX rcommaaccent tcommaaccent 20  
KPX rcommaaccent v 10  
KPX rcommaaccent y 10  
KPX rcommaaccent yacute 10  
KPX rcommaaccent ydieresis 10  
KPX s w -15  
KPX sacute w -15  
KPX scaron w -15  
KPX scedilla w -15  
KPX scommaaccent w -15  
KPX semicolon space -40  
KPX space T -100  
KPX space Tcaron -100  
KPX space Tcommaaccent -100  
KPX space V -80  
KPX space W -80  
KPX space Y -120  
KPX space Yacute -120  
KPX space Ydieresis -120  
KPX space quotedblleft -80  
KPX space quoteleft -60  
KPX v a -20  
KPX v acute -20  
KPX v abreve -20  
KPX v acircumflex -20  
KPX v adieresis -20

KPX v agrave -20  
KPX v amacron -20  
KPX v aogonek -20  
KPX v aring -20  
KPX v atilde -20  
KPX v comma -80  
KPX v o -30  
KPX v oacute -30  
KPX v ocircumflex -30  
KPX v odieresis -30  
KPX v ograve -30  
KPX v ohungarumlaut -30  
KPX v omacron -30  
KPX v oslash -30  
KPX v otilde -30  
KPX v period -80  
KPX w comma -40  
KPX w o -20  
KPX w oacute -20  
KPX w ocircumflex -20  
KPX w odieresis -20  
KPX w ograve -20  
KPX w ohungarumlaut -20  
KPX w omacron -20  
KPX w oslash -20  
KPX w otilde -20  
KPX w period -40  
KPX x e -10  
KPX x eacute -10  
KPX x ecaron -10  
KPX x ecircumflex -10  
KPX x edieresis -10  
KPX x edotaccent -10  
KPX x egrave -10  
KPX x emacron -10  
KPX x eogonek -10  
KPX y a -30  
KPX y aacute -30  
KPX y abreve -30  
KPX y acircumflex -30  
KPX y adieresis -30  
KPX y agrave -30  
KPX y amacron -30  
KPX y aogonek -30  
KPX y aring -30  
KPX y atilde -30  
KPX y comma -80  
KPX y e -10



KPX y eacute -10  
KPX y ecaron -10  
KPX y ecircumflex -10  
KPX y edieresis -10  
KPX y edotaccent -10  
KPX y egrave -10  
KPX y emacron -10  
KPX y eogonek -10  
KPX y o -25  
KPX y oacute -25  
KPX y ocircumflex -25  
KPX y odieresis -25  
KPX y ograve -25  
KPX y ohungarumlaut -25  
KPX y omacron -25  
KPX y oslash -25  
KPX y otilde -25  
KPX y period -80  
KPX yacute a -30  
KPX yacute aacute -30  
KPX yacute abreve -30  
KPX yacute acircumflex -30  
KPX yacute adieresis -30  
KPX yacute agrave -30  
KPX yacute amacron -30  
KPX yacute aogonek -30  
KPX yacute aring -30  
KPX yacute atilde -30  
KPX yacute comma -80  
KPX yacute e -10  
KPX yacute eacute -10  
KPX yacute ecaron -10  
KPX yacute ecircumflex -10  
KPX yacute edieresis -10  
KPX yacute edotaccent -10  
KPX yacute egrave -10  
KPX yacute emacron -10  
KPX yacute eogonek -10  
KPX yacute o -25  
KPX yacute oacute -25  
KPX yacute ocircumflex -25  
KPX yacute odieresis -25  
KPX yacute ograve -25  
KPX yacute ohungarumlaut -25  
KPX yacute omacron -25  
KPX yacute oslash -25  
KPX yacute otilde -25  
KPX yacute period -80

KPX ydieresis a -30  
KPX ydieresis aacute -30  
KPX ydieresis abreve -30  
KPX ydieresis acircumflex -30  
KPX ydieresis adieresis -30  
KPX ydieresis agrave -30  
KPX ydieresis amacron -30  
KPX ydieresis aogonek -30  
KPX ydieresis aring -30  
KPX ydieresis atilde -30  
KPX ydieresis comma -80  
KPX ydieresis e -10  
KPX ydieresis eacute -10  
KPX ydieresis ecaron -10  
KPX ydieresis ecircumflex -10  
KPX ydieresis edieresis -10  
KPX ydieresis edotaccent -10  
KPX ydieresis egrave -10  
KPX ydieresis emacron -10  
KPX ydieresis eogonek -10  
KPX ydieresis o -25  
KPX ydieresis oacute -25  
KPX ydieresis ocircumflex -25  
KPX ydieresis odieresis -25  
KPX ydieresis ograve -25  
KPX ydieresis ohungarumlaut -25  
KPX ydieresis omacron -25  
KPX ydieresis oslash -25  
KPX ydieresis otilde -25  
KPX ydieresis period -80  
KPX z e 10  
KPX z eacute 10  
KPX z ecaron 10  
KPX z ecircumflex 10  
KPX z edieresis 10  
KPX z edotaccent 10  
KPX z egrave 10  
KPX z emacron 10  
KPX z eogonek 10  
KPX zacute e 10  
KPX zacute eacute 10  
KPX zacute ecaron 10  
KPX zacute ecircumflex 10  
KPX zacute edieresis 10  
KPX zacute edotaccent 10  
KPX zacute egrave 10  
KPX zacute emacron 10  
KPX zacute eogonek 10

KPX zcaron e 10  
KPX zcaron eacute 10  
KPX zcaron ecaron 10  
KPX zcaron ecircumflex 10  
KPX zcaron edieresis 10  
KPX zcaron edotaccent 10  
KPX zcaron egrave 10  
KPX zcaron emacron 10  
KPX zcaron eogonek 10  
KPX zdotaccent e 10  
KPX zdotaccent eacute 10  
KPX zdotaccent ecaron 10  
KPX zdotaccent ecircumflex 10  
KPX zdotaccent edieresis 10  
KPX zdotaccent edotaccent 10  
KPX zdotaccent egrave 10  
KPX zdotaccent emacron 10  
KPX zdotaccent eogonek 10

EndKernPairs

EndKernData

EndFontMetrics

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1988, 1989, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 15:14:13 1997

Comment UniqueID 43082

Comment VMusage 45775 55535

FontName ZapfDingbats

FullName ITC Zapf Dingbats

FamilyName ZapfDingbats

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet Special

FontBBox -1 -143 981 820

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

Notice Copyright (c) 1985, 1987, 1988, 1989, 1997 Adobe Systems Incorporated. All Rights Reserved. ITC Zapf Dingbats is a registered trademark of International Typeface Corporation.

EncodingScheme FontSpecific

StdHW 28

StdVW 90

StartCharMetrics 202

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;

C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;

C 35 ; WX 974 ; N a202 ; B 35 72 939 621 ;

C 36 ; WX 980 ; N a3 ; B 35 0 945 692 ;

C 37 ; WX 719 ; N a4 ; B 34 139 685 566 ;  
C 38 ; WX 789 ; N a5 ; B 35 -14 755 705 ;  
C 39 ; WX 790 ; N a119 ; B 35 -14 755 705 ;  
C 40 ; WX 791 ; N a118 ; B 35 -13 761 705 ;  
C 41 ; WX 690 ; N a117 ; B 34 138 655 553 ;  
C 42 ; WX 960 ; N a11 ; B 35 123 925 568 ;  
C 43 ; WX 939 ; N a12 ; B 35 134 904 559 ;  
C 44 ; WX 549 ; N a13 ; B 29 -11 516 705 ;  
C 45 ; WX 855 ; N a14 ; B 34 59 820 632 ;  
C 46 ; WX 911 ; N a15 ; B 35 50 876 642 ;  
C 47 ; WX 933 ; N a16 ; B 35 139 899 550 ;  
C 48 ; WX 911 ; N a105 ; B 35 50 876 642 ;  
C 49 ; WX 945 ; N a17 ; B 35 139 909 553 ;  
C 50 ; WX 974 ; N a18 ; B 35 104 938 587 ;  
C 51 ; WX 755 ; N a19 ; B 34 -13 721 705 ;  
C 52 ; WX 846 ; N a20 ; B 36 -14 811 705 ;  
C 53 ; WX 762 ; N a21 ; B 35 0 727 692 ;  
C 54 ; WX 761 ; N a22 ; B 35 0 727 692 ;  
C 55 ; WX 571 ; N a23 ; B -1 -68 571 661 ;  
C 56 ; WX 677 ; N a24 ; B 36 -13 642 705 ;  
C 57 ; WX 763 ; N a25 ; B 35 0 728 692 ;  
C 58 ; WX 760 ; N a26 ; B 35 0 726 692 ;  
C 59 ; WX 759 ; N a27 ; B 35 0 725 692 ;  
C 60 ; WX 754 ; N a28 ; B 35 0 720 692 ;  
C 61 ; WX 494 ; N a6 ; B 35 0 460 692 ;  
C 62 ; WX 552 ; N a7 ; B 35 0 517 692 ;  
C 63 ; WX 537 ; N a8 ; B 35 0 503 692 ;  
C 64 ; WX 577 ; N a9 ; B 35 96 542 596 ;  
C 65 ; WX 692 ; N a10 ; B 35 -14 657 705 ;  
C 66 ; WX 786 ; N a29 ; B 35 -14 751 705 ;  
C 67 ; WX 788 ; N a30 ; B 35 -14 752 705 ;  
C 68 ; WX 788 ; N a31 ; B 35 -14 753 705 ;  
C 69 ; WX 790 ; N a32 ; B 35 -14 756 705 ;  
C 70 ; WX 793 ; N a33 ; B 35 -13 759 705 ;  
C 71 ; WX 794 ; N a34 ; B 35 -13 759 705 ;  
C 72 ; WX 816 ; N a35 ; B 35 -14 782 705 ;  
C 73 ; WX 823 ; N a36 ; B 35 -14 787 705 ;  
C 74 ; WX 789 ; N a37 ; B 35 -14 754 705 ;  
C 75 ; WX 841 ; N a38 ; B 35 -14 807 705 ;  
C 76 ; WX 823 ; N a39 ; B 35 -14 789 705 ;  
C 77 ; WX 833 ; N a40 ; B 35 -14 798 705 ;  
C 78 ; WX 816 ; N a41 ; B 35 -13 782 705 ;  
C 79 ; WX 831 ; N a42 ; B 35 -14 796 705 ;  
C 80 ; WX 923 ; N a43 ; B 35 -14 888 705 ;  
C 81 ; WX 744 ; N a44 ; B 35 0 710 692 ;  
C 82 ; WX 723 ; N a45 ; B 35 0 688 692 ;  
C 83 ; WX 749 ; N a46 ; B 35 0 714 692 ;  
C 84 ; WX 790 ; N a47 ; B 34 -14 756 705 ;

C 85 ; WX 792 ; N a48 ; B 35 -14 758 705 ;  
C 86 ; WX 695 ; N a49 ; B 35 -14 661 706 ;  
C 87 ; WX 776 ; N a50 ; B 35 -6 741 699 ;  
C 88 ; WX 768 ; N a51 ; B 35 -7 734 699 ;  
C 89 ; WX 792 ; N a52 ; B 35 -14 757 705 ;  
C 90 ; WX 759 ; N a53 ; B 35 0 725 692 ;  
C 91 ; WX 707 ; N a54 ; B 35 -13 672 704 ;  
C 92 ; WX 708 ; N a55 ; B 35 -14 672 705 ;  
C 93 ; WX 682 ; N a56 ; B 35 -14 647 705 ;  
C 94 ; WX 701 ; N a57 ; B 35 -14 666 705 ;  
C 95 ; WX 826 ; N a58 ; B 35 -14 791 705 ;  
C 96 ; WX 815 ; N a59 ; B 35 -14 780 705 ;  
C 97 ; WX 789 ; N a60 ; B 35 -14 754 705 ;  
C 98 ; WX 789 ; N a61 ; B 35 -14 754 705 ;  
C 99 ; WX 707 ; N a62 ; B 34 -14 673 705 ;  
C 100 ; WX 687 ; N a63 ; B 36 0 651 692 ;  
C 101 ; WX 696 ; N a64 ; B 35 0 661 691 ;  
C 102 ; WX 689 ; N a65 ; B 35 0 655 692 ;  
C 103 ; WX 786 ; N a66 ; B 34 -14 751 705 ;  
C 104 ; WX 787 ; N a67 ; B 35 -14 752 705 ;  
C 105 ; WX 713 ; N a68 ; B 35 -14 678 705 ;  
C 106 ; WX 791 ; N a69 ; B 35 -14 756 705 ;  
C 107 ; WX 785 ; N a70 ; B 36 -14 751 705 ;  
C 108 ; WX 791 ; N a71 ; B 35 -14 757 705 ;  
C 109 ; WX 873 ; N a72 ; B 35 -14 838 705 ;  
C 110 ; WX 761 ; N a73 ; B 35 0 726 692 ;  
C 111 ; WX 762 ; N a74 ; B 35 0 727 692 ;  
C 112 ; WX 762 ; N a203 ; B 35 0 727 692 ;  
C 113 ; WX 759 ; N a75 ; B 35 0 725 692 ;  
C 114 ; WX 759 ; N a204 ; B 35 0 725 692 ;  
C 115 ; WX 892 ; N a76 ; B 35 0 858 705 ;  
C 116 ; WX 892 ; N a77 ; B 35 -14 858 692 ;  
C 117 ; WX 788 ; N a78 ; B 35 -14 754 705 ;  
C 118 ; WX 784 ; N a79 ; B 35 -14 749 705 ;  
C 119 ; WX 438 ; N a81 ; B 35 -14 403 705 ;  
C 120 ; WX 138 ; N a82 ; B 35 0 104 692 ;  
C 121 ; WX 277 ; N a83 ; B 35 0 242 692 ;  
C 122 ; WX 415 ; N a84 ; B 35 0 380 692 ;  
C 123 ; WX 392 ; N a97 ; B 35 263 357 705 ;  
C 124 ; WX 392 ; N a98 ; B 34 263 357 705 ;  
C 125 ; WX 668 ; N a99 ; B 35 263 633 705 ;  
C 126 ; WX 668 ; N a100 ; B 36 263 634 705 ;  
C 128 ; WX 390 ; N a89 ; B 35 -14 356 705 ;  
C 129 ; WX 390 ; N a90 ; B 35 -14 355 705 ;  
C 130 ; WX 317 ; N a93 ; B 35 0 283 692 ;  
C 131 ; WX 317 ; N a94 ; B 35 0 283 692 ;  
C 132 ; WX 276 ; N a91 ; B 35 0 242 692 ;  
C 133 ; WX 276 ; N a92 ; B 35 0 242 692 ;

C 134 ; WX 509 ; N a205 ; B 35 0 475 692 ;  
C 135 ; WX 509 ; N a85 ; B 35 0 475 692 ;  
C 136 ; WX 410 ; N a206 ; B 35 0 375 692 ;  
C 137 ; WX 410 ; N a86 ; B 35 0 375 692 ;  
C 138 ; WX 234 ; N a87 ; B 35 -14 199 705 ;  
C 139 ; WX 234 ; N a88 ; B 35 -14 199 705 ;  
C 140 ; WX 334 ; N a95 ; B 35 0 299 692 ;  
C 141 ; WX 334 ; N a96 ; B 35 0 299 692 ;  
C 161 ; WX 732 ; N a101 ; B 35 -143 697 806 ;  
C 162 ; WX 544 ; N a102 ; B 56 -14 488 706 ;  
C 163 ; WX 544 ; N a103 ; B 34 -14 508 705 ;  
C 164 ; WX 910 ; N a104 ; B 35 40 875 651 ;  
C 165 ; WX 667 ; N a106 ; B 35 -14 633 705 ;  
C 166 ; WX 760 ; N a107 ; B 35 -14 726 705 ;  
C 167 ; WX 760 ; N a108 ; B 0 121 758 569 ;  
C 168 ; WX 776 ; N a112 ; B 35 0 741 705 ;  
C 169 ; WX 595 ; N a111 ; B 34 -14 560 705 ;  
C 170 ; WX 694 ; N a110 ; B 35 -14 659 705 ;  
C 171 ; WX 626 ; N a109 ; B 34 0 591 705 ;  
C 172 ; WX 788 ; N a120 ; B 35 -14 754 705 ;  
C 173 ; WX 788 ; N a121 ; B 35 -14 754 705 ;  
C 174 ; WX 788 ; N a122 ; B 35 -14 754 705 ;  
C 175 ; WX 788 ; N a123 ; B 35 -14 754 705 ;  
C 176 ; WX 788 ; N a124 ; B 35 -14 754 705 ;  
C 177 ; WX 788 ; N a125 ; B 35 -14 754 705 ;  
C 178 ; WX 788 ; N a126 ; B 35 -14 754 705 ;  
C 179 ; WX 788 ; N a127 ; B 35 -14 754 705 ;  
C 180 ; WX 788 ; N a128 ; B 35 -14 754 705 ;  
C 181 ; WX 788 ; N a129 ; B 35 -14 754 705 ;  
C 182 ; WX 788 ; N a130 ; B 35 -14 754 705 ;  
C 183 ; WX 788 ; N a131 ; B 35 -14 754 705 ;  
C 184 ; WX 788 ; N a132 ; B 35 -14 754 705 ;  
C 185 ; WX 788 ; N a133 ; B 35 -14 754 705 ;  
C 186 ; WX 788 ; N a134 ; B 35 -14 754 705 ;  
C 187 ; WX 788 ; N a135 ; B 35 -14 754 705 ;  
C 188 ; WX 788 ; N a136 ; B 35 -14 754 705 ;  
C 189 ; WX 788 ; N a137 ; B 35 -14 754 705 ;  
C 190 ; WX 788 ; N a138 ; B 35 -14 754 705 ;  
C 191 ; WX 788 ; N a139 ; B 35 -14 754 705 ;  
C 192 ; WX 788 ; N a140 ; B 35 -14 754 705 ;  
C 193 ; WX 788 ; N a141 ; B 35 -14 754 705 ;  
C 194 ; WX 788 ; N a142 ; B 35 -14 754 705 ;  
C 195 ; WX 788 ; N a143 ; B 35 -14 754 705 ;  
C 196 ; WX 788 ; N a144 ; B 35 -14 754 705 ;  
C 197 ; WX 788 ; N a145 ; B 35 -14 754 705 ;  
C 198 ; WX 788 ; N a146 ; B 35 -14 754 705 ;  
C 199 ; WX 788 ; N a147 ; B 35 -14 754 705 ;  
C 200 ; WX 788 ; N a148 ; B 35 -14 754 705 ;

C 201 ; WX 788 ; N a149 ; B 35 -14 754 705 ;  
C 202 ; WX 788 ; N a150 ; B 35 -14 754 705 ;  
C 203 ; WX 788 ; N a151 ; B 35 -14 754 705 ;  
C 204 ; WX 788 ; N a152 ; B 35 -14 754 705 ;  
C 205 ; WX 788 ; N a153 ; B 35 -14 754 705 ;  
C 206 ; WX 788 ; N a154 ; B 35 -14 754 705 ;  
C 207 ; WX 788 ; N a155 ; B 35 -14 754 705 ;  
C 208 ; WX 788 ; N a156 ; B 35 -14 754 705 ;  
C 209 ; WX 788 ; N a157 ; B 35 -14 754 705 ;  
C 210 ; WX 788 ; N a158 ; B 35 -14 754 705 ;  
C 211 ; WX 788 ; N a159 ; B 35 -14 754 705 ;  
C 212 ; WX 894 ; N a160 ; B 35 58 860 634 ;  
C 213 ; WX 838 ; N a161 ; B 35 152 803 540 ;  
C 214 ; WX 1016 ; N a163 ; B 34 152 981 540 ;  
C 215 ; WX 458 ; N a164 ; B 35 -127 422 820 ;  
C 216 ; WX 748 ; N a196 ; B 35 94 698 597 ;  
C 217 ; WX 924 ; N a165 ; B 35 140 890 552 ;  
C 218 ; WX 748 ; N a192 ; B 35 94 698 597 ;  
C 219 ; WX 918 ; N a166 ; B 35 166 884 526 ;  
C 220 ; WX 927 ; N a167 ; B 35 32 892 660 ;  
C 221 ; WX 928 ; N a168 ; B 35 129 891 562 ;  
C 222 ; WX 928 ; N a169 ; B 35 128 893 563 ;  
C 223 ; WX 834 ; N a170 ; B 35 155 799 537 ;  
C 224 ; WX 873 ; N a171 ; B 35 93 838 599 ;  
C 225 ; WX 828 ; N a172 ; B 35 104 791 588 ;  
C 226 ; WX 924 ; N a173 ; B 35 98 889 594 ;  
C 227 ; WX 924 ; N a162 ; B 35 98 889 594 ;  
C 228 ; WX 917 ; N a174 ; B 35 0 882 692 ;  
C 229 ; WX 930 ; N a175 ; B 35 84 896 608 ;  
C 230 ; WX 931 ; N a176 ; B 35 84 896 608 ;  
C 231 ; WX 463 ; N a177 ; B 35 -99 429 791 ;  
C 232 ; WX 883 ; N a178 ; B 35 71 848 623 ;  
C 233 ; WX 836 ; N a179 ; B 35 44 802 648 ;  
C 234 ; WX 836 ; N a193 ; B 35 44 802 648 ;  
C 235 ; WX 867 ; N a180 ; B 35 101 832 591 ;  
C 236 ; WX 867 ; N a199 ; B 35 101 832 591 ;  
C 237 ; WX 696 ; N a181 ; B 35 44 661 648 ;  
C 238 ; WX 696 ; N a200 ; B 35 44 661 648 ;  
C 239 ; WX 874 ; N a182 ; B 35 77 840 619 ;  
C 241 ; WX 874 ; N a201 ; B 35 73 840 615 ;  
C 242 ; WX 760 ; N a183 ; B 35 0 725 692 ;  
C 243 ; WX 946 ; N a184 ; B 35 160 911 533 ;  
C 244 ; WX 771 ; N a197 ; B 34 37 736 655 ;  
C 245 ; WX 865 ; N a185 ; B 35 207 830 481 ;  
C 246 ; WX 771 ; N a194 ; B 34 37 736 655 ;  
C 247 ; WX 888 ; N a198 ; B 34 -19 853 712 ;  
C 248 ; WX 967 ; N a186 ; B 35 124 932 568 ;  
C 249 ; WX 888 ; N a195 ; B 34 -19 853 712 ;

C 250 ; WX 831 ; N a187 ; B 35 113 796 579 ;  
C 251 ; WX 873 ; N a188 ; B 36 118 838 578 ;  
C 252 ; WX 927 ; N a189 ; B 35 150 891 542 ;  
C 253 ; WX 970 ; N a190 ; B 35 76 931 616 ;  
C 254 ; WX 918 ; N a191 ; B 34 99 884 593 ;  
EndCharMetrics  
EndFontMetrics  
StartFontMetrics 4.1  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu May 1 12:56:55 1997  
Comment UniqueID 43067  
Comment VMusage 47727 58752  
FontName Times-Italic  
FullName Times Italic  
FamilyName Times  
Weight Medium  
ItalicAngle -15.5  
IsFixedPitch false  
CharacterSet ExtendedRoman  
FontBBox -169 -217 1010 883  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.000  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved. Times  
is a trademark of Linotype-Hell AG and/or its subsidiaries.  
EncodingScheme AdobeStandardEncoding  
CapHeight 653  
XHeight 441  
Ascender 683  
Descender -217  
StdHW 32  
StdVW 76  
StartCharMetrics 315  
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 39 -11 302 667 ;  
C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;  
C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;  
C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;  
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;  
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;  
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;  
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;  
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;  
C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;  
C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;  
C 44 ; WX 250 ; N comma ; B -4 -129 135 101 ;  
C 45 ; WX 333 ; N hyphen ; B 49 192 282 255 ;  
C 46 ; WX 250 ; N period ; B 27 -11 138 100 ;



C 47 ; WX 278 ; N slash ; B -65 -18 386 666 ;  
C 48 ; WX 500 ; N zero ; B 32 -7 497 676 ;  
C 49 ; WX 500 ; N one ; B 49 0 409 676 ;  
C 50 ; WX 500 ; N two ; B 12 0 452 676 ;  
C 51 ; WX 500 ; N three ; B 15 -7 465 676 ;  
C 52 ; WX 500 ; N four ; B 1 0 479 676 ;  
C 53 ; WX 500 ; N five ; B 15 -7 491 666 ;  
C 54 ; WX 500 ; N six ; B 30 -7 521 686 ;  
C 55 ; WX 500 ; N seven ; B 75 -8 537 666 ;  
C 56 ; WX 500 ; N eight ; B 30 -7 493 676 ;  
C 57 ; WX 500 ; N nine ; B 23 -17 492 676 ;  
C 58 ; WX 333 ; N colon ; B 50 -11 261 441 ;  
C 59 ; WX 333 ; N semicolon ; B 27 -129 261 441 ;  
C 60 ; WX 675 ; N less ; B 84 -8 592 514 ;  
C 61 ; WX 675 ; N equal ; B 86 120 590 386 ;  
C 62 ; WX 675 ; N greater ; B 84 -8 592 514 ;  
C 63 ; WX 500 ; N question ; B 132 -12 472 664 ;  
C 64 ; WX 920 ; N at ; B 118 -18 806 666 ;  
C 65 ; WX 611 ; N A ; B -51 0 564 668 ;  
C 66 ; WX 611 ; N B ; B -8 0 588 653 ;  
C 67 ; WX 667 ; N C ; B 66 -18 689 666 ;  
C 68 ; WX 722 ; N D ; B -8 0 700 653 ;  
C 69 ; WX 611 ; N E ; B -1 0 634 653 ;  
C 70 ; WX 611 ; N F ; B 8 0 645 653 ;  
C 71 ; WX 722 ; N G ; B 52 -18 722 666 ;  
C 72 ; WX 722 ; N H ; B -8 0 767 653 ;  
C 73 ; WX 333 ; N I ; B -8 0 384 653 ;  
C 74 ; WX 444 ; N J ; B -6 -18 491 653 ;  
C 75 ; WX 667 ; N K ; B 7 0 722 653 ;  
C 76 ; WX 556 ; N L ; B -8 0 559 653 ;  
C 77 ; WX 833 ; N M ; B -18 0 873 653 ;  
C 78 ; WX 667 ; N N ; B -20 -15 727 653 ;  
C 79 ; WX 722 ; N O ; B 60 -18 699 666 ;  
C 80 ; WX 611 ; N P ; B 0 0 605 653 ;  
C 81 ; WX 722 ; N Q ; B 59 -182 699 666 ;  
C 82 ; WX 611 ; N R ; B -13 0 588 653 ;  
C 83 ; WX 500 ; N S ; B 17 -18 508 667 ;  
C 84 ; WX 556 ; N T ; B 59 0 633 653 ;  
C 85 ; WX 722 ; N U ; B 102 -18 765 653 ;  
C 86 ; WX 611 ; N V ; B 76 -18 688 653 ;  
C 87 ; WX 833 ; N W ; B 71 -18 906 653 ;  
C 88 ; WX 611 ; N X ; B -29 0 655 653 ;  
C 89 ; WX 556 ; N Y ; B 78 0 633 653 ;  
C 90 ; WX 556 ; N Z ; B -6 0 606 653 ;  
C 91 ; WX 389 ; N bracketleft ; B 21 -153 391 663 ;  
C 92 ; WX 278 ; N backslash ; B -41 -18 319 666 ;  
C 93 ; WX 389 ; N bracketright ; B 12 -153 382 663 ;  
C 94 ; WX 422 ; N asciicircum ; B 0 301 422 666 ;

C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 171 436 310 666 ;  
C 97 ; WX 500 ; N a ; B 17 -11 476 441 ;  
C 98 ; WX 500 ; N b ; B 23 -11 473 683 ;  
C 99 ; WX 444 ; N c ; B 30 -11 425 441 ;  
C 100 ; WX 500 ; N d ; B 15 -13 527 683 ;  
C 101 ; WX 444 ; N e ; B 31 -11 412 441 ;  
C 102 ; WX 278 ; N f ; B -147 -207 424 678 ; L i fi ; L l fl ;  
C 103 ; WX 500 ; N g ; B 8 -206 472 441 ;  
C 104 ; WX 500 ; N h ; B 19 -9 478 683 ;  
C 105 ; WX 278 ; N i ; B 49 -11 264 654 ;  
C 106 ; WX 278 ; N j ; B -124 -207 276 654 ;  
C 107 ; WX 444 ; N k ; B 14 -11 461 683 ;  
C 108 ; WX 278 ; N l ; B 41 -11 279 683 ;  
C 109 ; WX 722 ; N m ; B 12 -9 704 441 ;  
C 110 ; WX 500 ; N n ; B 14 -9 474 441 ;  
C 111 ; WX 500 ; N o ; B 27 -11 468 441 ;  
C 112 ; WX 500 ; N p ; B -75 -205 469 441 ;  
C 113 ; WX 500 ; N q ; B 25 -209 483 441 ;  
C 114 ; WX 389 ; N r ; B 45 0 412 441 ;  
C 115 ; WX 389 ; N s ; B 16 -13 366 442 ;  
C 116 ; WX 278 ; N t ; B 37 -11 296 546 ;  
C 117 ; WX 500 ; N u ; B 42 -11 475 441 ;  
C 118 ; WX 444 ; N v ; B 21 -18 426 441 ;  
C 119 ; WX 667 ; N w ; B 16 -18 648 441 ;  
C 120 ; WX 444 ; N x ; B -27 -11 447 441 ;  
C 121 ; WX 444 ; N y ; B -24 -206 426 441 ;  
C 122 ; WX 389 ; N z ; B -2 -81 380 428 ;  
C 123 ; WX 400 ; N braceleft ; B 51 -177 407 687 ;  
C 124 ; WX 275 ; N bar ; B 105 -217 171 783 ;  
C 125 ; WX 400 ; N braceright ; B -7 -177 349 687 ;  
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;  
C 161 ; WX 389 ; N exclamdown ; B 59 -205 322 473 ;  
C 162 ; WX 500 ; N cent ; B 77 -143 472 560 ;  
C 163 ; WX 500 ; N sterling ; B 10 -6 517 670 ;  
C 164 ; WX 167 ; N fraction ; B -169 -10 337 676 ;  
C 165 ; WX 500 ; N yen ; B 27 0 603 653 ;  
C 166 ; WX 500 ; N florin ; B 25 -182 507 682 ;  
C 167 ; WX 500 ; N section ; B 53 -162 461 666 ;  
C 168 ; WX 500 ; N currency ; B -22 53 522 597 ;  
C 169 ; WX 214 ; N quotesingle ; B 132 421 241 666 ;  
C 170 ; WX 556 ; N quotedblleft ; B 166 436 514 666 ;  
C 171 ; WX 500 ; N guillemotleft ; B 53 37 445 403 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 51 37 281 403 ;  
C 173 ; WX 333 ; N guilsinglright ; B 52 37 282 403 ;  
C 174 ; WX 500 ; N fi ; B -141 -207 481 681 ;  
C 175 ; WX 500 ; N fl ; B -141 -204 518 682 ;  
C 177 ; WX 500 ; N endash ; B -6 197 505 243 ;

C 178 ; WX 500 ; N dagger ; B 101 -159 488 666 ;  
C 179 ; WX 500 ; N daggerdbl ; B 22 -143 491 666 ;  
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;  
C 182 ; WX 523 ; N paragraph ; B 55 -123 616 653 ;  
C 183 ; WX 350 ; N bullet ; B 40 191 310 461 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 44 -129 183 101 ;  
C 185 ; WX 556 ; N quotedblbase ; B 57 -129 405 101 ;  
C 186 ; WX 556 ; N quotedblright ; B 151 436 499 666 ;  
C 187 ; WX 500 ; N guillemotright ; B 55 37 447 403 ;  
C 188 ; WX 889 ; N ellipsis ; B 57 -11 762 100 ;  
C 189 ; WX 1000 ; N perthousand ; B 25 -19 1010 706 ;  
C 191 ; WX 500 ; N questiondown ; B 28 -205 368 471 ;  
C 193 ; WX 333 ; N grave ; B 121 492 311 664 ;  
C 194 ; WX 333 ; N acute ; B 180 494 403 664 ;  
C 195 ; WX 333 ; N circumflex ; B 91 492 385 661 ;  
C 196 ; WX 333 ; N tilde ; B 100 517 427 624 ;  
C 197 ; WX 333 ; N macron ; B 99 532 411 583 ;  
C 198 ; WX 333 ; N breve ; B 117 492 418 650 ;  
C 199 ; WX 333 ; N dotaccent ; B 207 548 305 646 ;  
C 200 ; WX 333 ; N dieresis ; B 107 548 405 646 ;  
C 202 ; WX 333 ; N ring ; B 155 492 355 691 ;  
C 203 ; WX 333 ; N cedilla ; B -30 -217 182 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 93 494 486 664 ;  
C 206 ; WX 333 ; N ogonek ; B 20 -169 203 40 ;  
C 207 ; WX 333 ; N caron ; B 121 492 426 661 ;  
C 208 ; WX 889 ; N emdash ; B -6 197 894 243 ;  
C 225 ; WX 889 ; N AE ; B -27 0 911 653 ;  
C 227 ; WX 276 ; N ordfeminine ; B 42 406 352 676 ;  
C 232 ; WX 556 ; N Lslash ; B -8 0 559 653 ;  
C 233 ; WX 722 ; N Oslash ; B 60 -105 699 722 ;  
C 234 ; WX 944 ; N OE ; B 49 -8 964 666 ;  
C 235 ; WX 310 ; N ordmasculine ; B 67 406 362 676 ;  
C 241 ; WX 667 ; N ae ; B 23 -11 640 441 ;  
C 245 ; WX 278 ; N dotlessi ; B 49 -11 235 441 ;  
C 248 ; WX 278 ; N lslash ; B 41 -11 312 683 ;  
C 249 ; WX 500 ; N oslash ; B 28 -135 469 554 ;  
C 250 ; WX 667 ; N oe ; B 20 -12 646 441 ;  
C 251 ; WX 500 ; N germandbls ; B -168 -207 493 679 ;  
C -1 ; WX 333 ; N Idieresis ; B -8 0 435 818 ;  
C -1 ; WX 444 ; N eacute ; B 31 -11 459 664 ;  
C -1 ; WX 500 ; N abreve ; B 17 -11 502 650 ;  
C -1 ; WX 500 ; N uhungarumlaut ; B 42 -11 580 664 ;  
C -1 ; WX 444 ; N ecaron ; B 31 -11 482 661 ;  
C -1 ; WX 556 ; N Ydieresis ; B 78 0 633 818 ;  
C -1 ; WX 675 ; N divide ; B 86 -11 590 517 ;  
C -1 ; WX 556 ; N Yacute ; B 78 0 633 876 ;  
C -1 ; WX 611 ; N Acircumflex ; B -51 0 564 873 ;  
C -1 ; WX 500 ; N aacute ; B 17 -11 487 664 ;

C -1 ; WX 722 ; N Ucircumflex ; B 102 -18 765 873 ;  
C -1 ; WX 444 ; N yacute ; B -24 -206 459 664 ;  
C -1 ; WX 389 ; N scommaaccent ; B 16 -217 366 442 ;  
C -1 ; WX 444 ; N ecircumflex ; B 31 -11 441 661 ;  
C -1 ; WX 722 ; N Uring ; B 102 -18 765 883 ;  
C -1 ; WX 722 ; N Udieresis ; B 102 -18 765 818 ;  
C -1 ; WX 500 ; N aogonek ; B 17 -169 476 441 ;  
C -1 ; WX 722 ; N Uacute ; B 102 -18 765 876 ;  
C -1 ; WX 500 ; N uogonek ; B 42 -169 477 441 ;  
C -1 ; WX 611 ; N Edieresis ; B -1 0 634 818 ;  
C -1 ; WX 722 ; N Dcroat ; B -8 0 700 653 ;  
C -1 ; WX 250 ; N commaaccent ; B 8 -217 133 -50 ;  
C -1 ; WX 760 ; N copyright ; B 41 -18 719 666 ;  
C -1 ; WX 611 ; N Emacron ; B -1 0 634 795 ;  
C -1 ; WX 444 ; N ccaron ; B 30 -11 482 661 ;  
C -1 ; WX 500 ; N aring ; B 17 -11 476 691 ;  
C -1 ; WX 667 ; N Ncommaaccent ; B -20 -187 727 653 ;  
C -1 ; WX 278 ; N lacute ; B 41 -11 395 876 ;  
C -1 ; WX 500 ; N agrave ; B 17 -11 476 664 ;  
C -1 ; WX 556 ; N Tcommaaccent ; B 59 -217 633 653 ;  
C -1 ; WX 667 ; N Cacute ; B 66 -18 690 876 ;  
C -1 ; WX 500 ; N atilde ; B 17 -11 511 624 ;  
C -1 ; WX 611 ; N Edotaccent ; B -1 0 634 818 ;  
C -1 ; WX 389 ; N scaron ; B 16 -13 454 661 ;  
C -1 ; WX 389 ; N scedilla ; B 16 -217 366 442 ;  
C -1 ; WX 278 ; N iacute ; B 49 -11 355 664 ;  
C -1 ; WX 471 ; N lozenge ; B 13 0 459 724 ;  
C -1 ; WX 611 ; N Rcaron ; B -13 0 588 873 ;  
C -1 ; WX 722 ; N Gcommaaccent ; B 52 -217 722 666 ;  
C -1 ; WX 500 ; N ucircumflex ; B 42 -11 475 661 ;  
C -1 ; WX 500 ; N acircumflex ; B 17 -11 476 661 ;  
C -1 ; WX 611 ; N Amacron ; B -51 0 564 795 ;  
C -1 ; WX 389 ; N rcaron ; B 45 0 434 661 ;  
C -1 ; WX 444 ; N ccedilla ; B 30 -217 425 441 ;  
C -1 ; WX 556 ; N Zdotaccent ; B -6 0 606 818 ;  
C -1 ; WX 611 ; N Thorn ; B 0 0 569 653 ;  
C -1 ; WX 722 ; N Omacron ; B 60 -18 699 795 ;  
C -1 ; WX 611 ; N Racute ; B -13 0 588 876 ;  
C -1 ; WX 500 ; N Sacute ; B 17 -18 508 876 ;  
C -1 ; WX 544 ; N dcaron ; B 15 -13 658 683 ;  
C -1 ; WX 722 ; N Umacron ; B 102 -18 765 795 ;  
C -1 ; WX 500 ; N uring ; B 42 -11 475 691 ;  
C -1 ; WX 300 ; N threesuperior ; B 43 268 339 676 ;  
C -1 ; WX 722 ; N Ograve ; B 60 -18 699 876 ;  
C -1 ; WX 611 ; N Agrave ; B -51 0 564 876 ;  
C -1 ; WX 611 ; N Abreve ; B -51 0 564 862 ;  
C -1 ; WX 675 ; N multiply ; B 93 8 582 497 ;  
C -1 ; WX 500 ; N uacute ; B 42 -11 477 664 ;

C -1 ; WX 556 ; N Tcaron ; B 59 0 633 873 ;  
C -1 ; WX 476 ; N partialdiff ; B 17 -38 459 710 ;  
C -1 ; WX 444 ; N ydieresis ; B -24 -206 441 606 ;  
C -1 ; WX 667 ; N Nacute ; B -20 -15 727 876 ;  
C -1 ; WX 278 ; N icircumflex ; B 33 -11 327 661 ;  
C -1 ; WX 611 ; N Ecircumflex ; B -1 0 634 873 ;  
C -1 ; WX 500 ; N adieresis ; B 17 -11 489 606 ;  
C -1 ; WX 444 ; N edieresis ; B 31 -11 451 606 ;  
C -1 ; WX 444 ; N cacute ; B 30 -11 459 664 ;  
C -1 ; WX 500 ; N nacute ; B 14 -9 477 664 ;  
C -1 ; WX 500 ; N umacron ; B 42 -11 485 583 ;  
C -1 ; WX 667 ; N Ncaron ; B -20 -15 727 873 ;  
C -1 ; WX 333 ; N Iacute ; B -8 0 433 876 ;  
C -1 ; WX 675 ; N plusminus ; B 86 0 590 506 ;  
C -1 ; WX 275 ; N brokenbar ; B 105 -142 171 708 ;  
C -1 ; WX 760 ; N registered ; B 41 -18 719 666 ;  
C -1 ; WX 722 ; N Gbreve ; B 52 -18 722 862 ;  
C -1 ; WX 333 ; N Idotaccent ; B -8 0 384 818 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;  
C -1 ; WX 611 ; N Egrave ; B -1 0 634 876 ;  
C -1 ; WX 389 ; N racute ; B 45 0 431 664 ;  
C -1 ; WX 500 ; N omacron ; B 27 -11 495 583 ;  
C -1 ; WX 556 ; N Zacute ; B -6 0 606 876 ;  
C -1 ; WX 556 ; N Zcaron ; B -6 0 606 873 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 658 ;  
C -1 ; WX 722 ; N Eth ; B -8 0 700 653 ;  
C -1 ; WX 667 ; N Ccedilla ; B 66 -217 689 666 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 22 -217 279 683 ;  
C -1 ; WX 300 ; N tcaron ; B 37 -11 407 681 ;  
C -1 ; WX 444 ; N eogonek ; B 31 -169 412 441 ;  
C -1 ; WX 722 ; N Uogonek ; B 102 -184 765 653 ;  
C -1 ; WX 611 ; N Aacute ; B -51 0 564 876 ;  
C -1 ; WX 611 ; N Adieresis ; B -51 0 564 818 ;  
C -1 ; WX 444 ; N egrave ; B 31 -11 412 664 ;  
C -1 ; WX 389 ; N zacute ; B -2 -81 431 664 ;  
C -1 ; WX 278 ; N iogonek ; B 49 -169 264 654 ;  
C -1 ; WX 722 ; N Oacute ; B 60 -18 699 876 ;  
C -1 ; WX 500 ; N oacute ; B 27 -11 487 664 ;  
C -1 ; WX 500 ; N amacron ; B 17 -11 495 583 ;  
C -1 ; WX 389 ; N sacute ; B 16 -13 431 664 ;  
C -1 ; WX 278 ; N idieresis ; B 49 -11 352 606 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 60 -18 699 873 ;  
C -1 ; WX 722 ; N Ugrave ; B 102 -18 765 876 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 500 ; N thorn ; B -75 -205 469 683 ;  
C -1 ; WX 300 ; N twosuperior ; B 33 271 324 676 ;  
C -1 ; WX 722 ; N Odieresis ; B 60 -18 699 818 ;  
C -1 ; WX 500 ; N mu ; B -30 -209 497 428 ;

C -1 ; WX 278 ; N igrave ; B 49 -11 284 664 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B 27 -11 590 664 ;  
C -1 ; WX 611 ; N Eogonek ; B -1 -169 634 653 ;  
C -1 ; WX 500 ; N dcroat ; B 15 -13 572 683 ;  
C -1 ; WX 750 ; N threequarters ; B 23 -10 736 676 ;  
C -1 ; WX 500 ; N Scedilla ; B 17 -217 508 667 ;  
C -1 ; WX 300 ; N lcaron ; B 41 -11 407 683 ;  
C -1 ; WX 667 ; N Kcommaaccent ; B 7 -217 722 653 ;  
C -1 ; WX 556 ; N Lacute ; B -8 0 559 876 ;  
C -1 ; WX 980 ; N trademark ; B 30 247 957 653 ;  
C -1 ; WX 444 ; N edotaccent ; B 31 -11 412 606 ;  
C -1 ; WX 333 ; N Igrave ; B -8 0 384 876 ;  
C -1 ; WX 333 ; N Imacron ; B -8 0 441 795 ;  
C -1 ; WX 611 ; N Lcaron ; B -8 0 586 653 ;  
C -1 ; WX 750 ; N onehalf ; B 34 -10 749 676 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 523 658 ;  
C -1 ; WX 500 ; N ocircumflex ; B 27 -11 468 661 ;  
C -1 ; WX 500 ; N ntilde ; B 14 -9 476 624 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 102 -18 765 876 ;  
C -1 ; WX 611 ; N Eacute ; B -1 0 634 876 ;  
C -1 ; WX 444 ; N emacron ; B 31 -11 457 583 ;  
C -1 ; WX 500 ; N gbreve ; B 8 -206 487 650 ;  
C -1 ; WX 750 ; N onequarter ; B 33 -10 736 676 ;  
C -1 ; WX 500 ; N Scaron ; B 17 -18 520 873 ;  
C -1 ; WX 500 ; N Scommaaccent ; B 17 -217 508 667 ;  
C -1 ; WX 722 ; N Ohungarumlaut ; B 60 -18 699 876 ;  
C -1 ; WX 400 ; N degree ; B 101 390 387 676 ;  
C -1 ; WX 500 ; N ograve ; B 27 -11 468 664 ;  
C -1 ; WX 667 ; N Ccaron ; B 66 -18 689 873 ;  
C -1 ; WX 500 ; N ugrave ; B 42 -11 475 664 ;  
C -1 ; WX 453 ; N radical ; B 2 -60 452 768 ;  
C -1 ; WX 722 ; N Dcaron ; B -8 0 700 873 ;  
C -1 ; WX 389 ; N rcommaaccent ; B -3 -217 412 441 ;  
C -1 ; WX 667 ; N Ntilde ; B -20 -15 727 836 ;  
C -1 ; WX 500 ; N otilde ; B 27 -11 496 624 ;  
C -1 ; WX 611 ; N Rcommaaccent ; B -13 -187 588 653 ;  
C -1 ; WX 556 ; N Lcommaaccent ; B -8 -217 559 653 ;  
C -1 ; WX 611 ; N Atilde ; B -51 0 566 836 ;  
C -1 ; WX 611 ; N Aogonek ; B -51 -169 566 668 ;  
C -1 ; WX 611 ; N Aring ; B -51 0 564 883 ;  
C -1 ; WX 722 ; N Otilde ; B 60 -18 699 836 ;  
C -1 ; WX 389 ; N zdotaccent ; B -2 -81 380 606 ;  
C -1 ; WX 611 ; N Ecaron ; B -1 0 634 873 ;  
C -1 ; WX 333 ; N Iogonek ; B -8 -169 384 653 ;  
C -1 ; WX 444 ; N kcommaaccent ; B 14 -187 461 683 ;  
C -1 ; WX 675 ; N minus ; B 86 220 590 286 ;  
C -1 ; WX 333 ; N Icircumflex ; B -8 0 425 873 ;  
C -1 ; WX 500 ; N ncaron ; B 14 -9 510 661 ;

C -1 ; WX 278 ; N tcommaaccent ; B 2 -217 296 546 ;  
C -1 ; WX 675 ; N logicalnot ; B 86 108 590 386 ;  
C -1 ; WX 500 ; N odieresis ; B 27 -11 489 606 ;  
C -1 ; WX 500 ; N udieresis ; B 42 -11 479 606 ;  
C -1 ; WX 549 ; N notequal ; B 12 -29 537 541 ;  
C -1 ; WX 500 ; N gcommaaccent ; B 8 -206 472 706 ;  
C -1 ; WX 500 ; N eth ; B 27 -11 482 683 ;  
C -1 ; WX 389 ; N zcaron ; B -2 -81 434 661 ;  
C -1 ; WX 500 ; N ncommaaccent ; B 14 -187 474 441 ;  
C -1 ; WX 300 ; N onesuperior ; B 43 271 284 676 ;  
C -1 ; WX 278 ; N imacron ; B 46 -11 311 583 ;  
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2321

KPX A C -30

KPX A Cacute -30

KPX A Ccaron -30

KPX A Ccedilla -30

KPX A G -35

KPX A Gbreve -35

KPX A Gcommaaccent -35

KPX A O -40

KPX A Oacute -40

KPX A Ocircumflex -40

KPX A Odieresis -40

KPX A Ograve -40

KPX A Ohungarumlaut -40

KPX A Omacron -40

KPX A Oslash -40

KPX A Otilde -40

KPX A Q -40

KPX A T -37

KPX A Tcaron -37

KPX A Tcommaaccent -37

KPX A U -50

KPX A Uacute -50

KPX A Ucircumflex -50

KPX A Udieresis -50

KPX A Ugrave -50

KPX A Uhungarumlaut -50

KPX A Umacron -50

KPX A Uogonek -50

KPX A Uring -50

KPX A V -105

KPX A W -95

KPX A Y -55

KPX A Yacute -55

KPX A Ydieresis -55  
KPX A quoteright -37  
KPX A u -20  
KPX A uacute -20  
KPX A ucircumflex -20  
KPX A udieresis -20  
KPX A ugrave -20  
KPX A uhungarumlaut -20  
KPX A umacron -20  
KPX A uogonek -20  
KPX A uring -20  
KPX A v -55  
KPX A w -55  
KPX A y -55  
KPX A yacute -55  
KPX A ydieresis -55  
KPX Aacute C -30  
KPX Aacute Cacute -30  
KPX Aacute Ccaron -30  
KPX Aacute Ccedilla -30  
KPX Aacute G -35  
KPX Aacute Gbreve -35  
KPX Aacute Gcommaaccent -35  
KPX Aacute O -40  
KPX Aacute Oacute -40  
KPX Aacute Ocircumflex -40  
KPX Aacute Odieresis -40  
KPX Aacute Ograve -40  
KPX Aacute Ohungarumlaut -40  
KPX Aacute Omacron -40  
KPX Aacute Oslash -40  
KPX Aacute Otilde -40  
KPX Aacute Q -40  
KPX Aacute T -37  
KPX Aacute Tcaron -37  
KPX Aacute Tcommaaccent -37  
KPX Aacute U -50  
KPX Aacute Uacute -50  
KPX Aacute Ucircumflex -50  
KPX Aacute Udieresis -50  
KPX Aacute Ugrave -50  
KPX Aacute Uhungarumlaut -50  
KPX Aacute Umacron -50  
KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -105  
KPX Aacute W -95  
KPX Aacute Y -55



KPX Aacute Yacute -55  
KPX Aacute Ydieresis -55  
KPX Aacute quoteright -37  
KPX Aacute u -20  
KPX Aacute uacute -20  
KPX Aacute ucircumflex -20  
KPX Aacute udieresis -20  
KPX Aacute ugrave -20  
KPX Aacute uhungarumlaut -20  
KPX Aacute umacron -20  
KPX Aacute uogonek -20  
KPX Aacute uring -20  
KPX Aacute v -55  
KPX Aacute w -55  
KPX Aacute y -55  
KPX Aacute yacute -55  
KPX Aacute ydieresis -55  
KPX Abreve C -30  
KPX Abreve Cacute -30  
KPX Abreve Ccaron -30  
KPX Abreve Ccedilla -30  
KPX Abreve G -35  
KPX Abreve Gbreve -35  
KPX Abreve Gcommaaccent -35  
KPX Abreve O -40  
KPX Abreve Oacute -40  
KPX Abreve Ocircumflex -40  
KPX Abreve Odieresis -40  
KPX Abreve Ograve -40  
KPX Abreve Ohungarumlaut -40  
KPX Abreve Omacron -40  
KPX Abreve Oslash -40  
KPX Abreve Otilde -40  
KPX Abreve Q -40  
KPX Abreve T -37  
KPX Abreve Tcaron -37  
KPX Abreve Tcommaaccent -37  
KPX Abreve U -50  
KPX Abreve Uacute -50  
KPX Abreve Ucircumflex -50  
KPX Abreve Udieresis -50  
KPX Abreve Ugrave -50  
KPX Abreve Uhungarumlaut -50  
KPX Abreve Umacron -50  
KPX Abreve Uogonek -50  
KPX Abreve Uring -50  
KPX Abreve V -105  
KPX Abreve W -95

KPX Abreve Y -55  
KPX Abreve Yacute -55  
KPX Abreve Ydieresis -55  
KPX Abreve quoteright -37  
KPX Abreve u -20  
KPX Abreve uacute -20  
KPX Abreve ucircumflex -20  
KPX Abreve udieresis -20  
KPX Abreve ugrave -20  
KPX Abreve uhungarumlaut -20  
KPX Abreve umacron -20  
KPX Abreve uogonek -20  
KPX Abreve uring -20  
KPX Abreve v -55  
KPX Abreve w -55  
KPX Abreve y -55  
KPX Abreve yacute -55  
KPX Abreve ydieresis -55  
KPX Acircumflex C -30  
KPX Acircumflex Cacute -30  
KPX Acircumflex Ccaron -30  
KPX Acircumflex Ccedilla -30  
KPX Acircumflex G -35  
KPX Acircumflex Gbreve -35  
KPX Acircumflex Gcommaaccent -35  
KPX Acircumflex O -40  
KPX Acircumflex Oacute -40  
KPX Acircumflex Ocircumflex -40  
KPX Acircumflex Odieresis -40  
KPX Acircumflex Ograve -40  
KPX Acircumflex Ohungarumlaut -40  
KPX Acircumflex Omacron -40  
KPX Acircumflex Oslash -40  
KPX Acircumflex Otilde -40  
KPX Acircumflex Q -40  
KPX Acircumflex T -37  
KPX Acircumflex Tcaron -37  
KPX Acircumflex Tcommaaccent -37  
KPX Acircumflex U -50  
KPX Acircumflex Uacute -50  
KPX Acircumflex Ucircumflex -50  
KPX Acircumflex Udieresis -50  
KPX Acircumflex Ugrave -50  
KPX Acircumflex Uhungarumlaut -50  
KPX Acircumflex Umacron -50  
KPX Acircumflex Uogonek -50  
KPX Acircumflex Uring -50  
KPX Acircumflex V -105

KPX Acircumflex W -95  
KPX Acircumflex Y -55  
KPX Acircumflex Yacute -55  
KPX Acircumflex Ydieresis -55  
KPX Acircumflex quoteright -37  
KPX Acircumflex u -20  
KPX Acircumflex uacute -20  
KPX Acircumflex ucircumflex -20  
KPX Acircumflex udieresis -20  
KPX Acircumflex ugrave -20  
KPX Acircumflex uhungarumlaut -20  
KPX Acircumflex umacron -20  
KPX Acircumflex uogonek -20  
KPX Acircumflex uring -20  
KPX Acircumflex v -55  
KPX Acircumflex w -55  
KPX Acircumflex y -55  
KPX Acircumflex yacute -55  
KPX Acircumflex ydieresis -55  
KPX Adieresis C -30  
KPX Adieresis Cacute -30  
KPX Adieresis Ccaron -30  
KPX Adieresis Ccedilla -30  
KPX Adieresis G -35  
KPX Adieresis Gbreve -35  
KPX Adieresis Gcommaaccent -35  
KPX Adieresis O -40  
KPX Adieresis Oacute -40  
KPX Adieresis Ocircumflex -40  
KPX Adieresis Odieresis -40  
KPX Adieresis Ograve -40  
KPX Adieresis Ohungarumlaut -40  
KPX Adieresis Omacron -40  
KPX Adieresis Oslash -40  
KPX Adieresis Otilde -40  
KPX Adieresis Q -40  
KPX Adieresis T -37  
KPX Adieresis Tcaron -37  
KPX Adieresis Tcommaaccent -37  
KPX Adieresis U -50  
KPX Adieresis Uacute -50  
KPX Adieresis Ucircumflex -50  
KPX Adieresis Udieresis -50  
KPX Adieresis Ugrave -50  
KPX Adieresis Uhungarumlaut -50  
KPX Adieresis Umacron -50  
KPX Adieresis Uogonek -50  
KPX Adieresis Uring -50

KPX Adieresis V -105  
KPX Adieresis W -95  
KPX Adieresis Y -55  
KPX Adieresis Yacute -55  
KPX Adieresis Ydieresis -55  
KPX Adieresis quoteright -37  
KPX Adieresis u -20  
KPX Adieresis uacute -20  
KPX Adieresis ucircumflex -20  
KPX Adieresis udieresis -20  
KPX Adieresis ugrave -20  
KPX Adieresis uhungarumlaut -20  
KPX Adieresis umacron -20  
KPX Adieresis uogonek -20  
KPX Adieresis uring -20  
KPX Adieresis v -55  
KPX Adieresis w -55  
KPX Adieresis y -55  
KPX Adieresis yacute -55  
KPX Adieresis ydieresis -55  
KPX Agrave C -30  
KPX Agrave Cacute -30  
KPX Agrave Ccaron -30  
KPX Agrave Ccedilla -30  
KPX Agrave G -35  
KPX Agrave Gbreve -35  
KPX Agrave Gcommaaccent -35  
KPX Agrave O -40  
KPX Agrave Oacute -40  
KPX Agrave Ocircumflex -40  
KPX Agrave Odieresis -40  
KPX Agrave Ograve -40  
KPX Agrave Ohungarumlaut -40  
KPX Agrave Omacron -40  
KPX Agrave Oslash -40  
KPX Agrave Otilde -40  
KPX Agrave Q -40  
KPX Agrave T -37  
KPX Agrave Tcaron -37  
KPX Agrave Tcommaaccent -37  
KPX Agrave U -50  
KPX Agrave Uacute -50  
KPX Agrave Ucircumflex -50  
KPX Agrave Udieresis -50  
KPX Agrave Ugrave -50  
KPX Agrave Uhungarumlaut -50  
KPX Agrave Umacron -50  
KPX Agrave Uogonek -50

KPX Agrave Uring -50  
KPX Agrave V -105  
KPX Agrave W -95  
KPX Agrave Y -55  
KPX Agrave Yacute -55  
KPX Agrave Ydieresis -55  
KPX Agrave quoteright -37  
KPX Agrave u -20  
KPX Agrave uacute -20  
KPX Agrave ucircumflex -20  
KPX Agrave udieresis -20  
KPX Agrave ugrave -20  
KPX Agrave uhungarumlaut -20  
KPX Agrave umacron -20  
KPX Agrave uogonek -20  
KPX Agrave uring -20  
KPX Agrave v -55  
KPX Agrave w -55  
KPX Agrave y -55  
KPX Agrave yacute -55  
KPX Agrave ydieresis -55  
KPX Amacron C -30  
KPX Amacron Cacute -30  
KPX Amacron Ccaron -30  
KPX Amacron Ccedilla -30  
KPX Amacron G -35  
KPX Amacron Gbreve -35  
KPX Amacron Gcommaaccent -35  
KPX Amacron O -40  
KPX Amacron Oacute -40  
KPX Amacron Ocircumflex -40  
KPX Amacron Odieresis -40  
KPX Amacron Ograve -40  
KPX Amacron Ohungarumlaut -40  
KPX Amacron Omacron -40  
KPX Amacron Oslash -40  
KPX Amacron Otilde -40  
KPX Amacron Q -40  
KPX Amacron T -37  
KPX Amacron Tcaron -37  
KPX Amacron Tcommaaccent -37  
KPX Amacron U -50  
KPX Amacron Uacute -50  
KPX Amacron Ucircumflex -50  
KPX Amacron Udieresis -50  
KPX Amacron Ugrave -50  
KPX Amacron Uhungarumlaut -50  
KPX Amacron Umacron -50

KPX Amacron Uogonek -50  
KPX Amacron Uring -50  
KPX Amacron V -105  
KPX Amacron W -95  
KPX Amacron Y -55  
KPX Amacron Yacute -55  
KPX Amacron Ydieresis -55  
KPX Amacron quoteright -37  
KPX Amacron u -20  
KPX Amacron uacute -20  
KPX Amacron ucircumflex -20  
KPX Amacron udieresis -20  
KPX Amacron ugrave -20  
KPX Amacron uhungarumlaut -20  
KPX Amacron umacron -20  
KPX Amacron uogonek -20  
KPX Amacron uring -20  
KPX Amacron v -55  
KPX Amacron w -55  
KPX Amacron y -55  
KPX Amacron yacute -55  
KPX Amacron ydieresis -55  
KPX Aogonek C -30  
KPX Aogonek Cacute -30  
KPX Aogonek Ccaron -30  
KPX Aogonek Ccedilla -30  
KPX Aogonek G -35  
KPX Aogonek Gbreve -35  
KPX Aogonek Gcommaaccent -35  
KPX Aogonek O -40  
KPX Aogonek Oacute -40  
KPX Aogonek Ocircumflex -40  
KPX Aogonek Odieresis -40  
KPX Aogonek Ograve -40  
KPX Aogonek Ohungarumlaut -40  
KPX Aogonek Omacron -40  
KPX Aogonek Oslash -40  
KPX Aogonek Otilde -40  
KPX Aogonek Q -40  
KPX Aogonek T -37  
KPX Aogonek Tcaron -37  
KPX Aogonek Tcommaaccent -37  
KPX Aogonek U -50  
KPX Aogonek Uacute -50  
KPX Aogonek Ucircumflex -50  
KPX Aogonek Udieresis -50  
KPX Aogonek Ugrave -50  
KPX Aogonek Uhungarumlaut -50

KPX Aogonek Umacron -50  
KPX Aogonek Uogonek -50  
KPX Aogonek Uring -50  
KPX Aogonek V -105  
KPX Aogonek W -95  
KPX Aogonek Y -55  
KPX Aogonek Yacute -55  
KPX Aogonek Ydieresis -55  
KPX Aogonek quoteright -37  
KPX Aogonek u -20  
KPX Aogonek uacute -20  
KPX Aogonek ucircumflex -20  
KPX Aogonek udieresis -20  
KPX Aogonek ugrave -20  
KPX Aogonek uhungarumlaut -20  
KPX Aogonek umacron -20  
KPX Aogonek uogonek -20  
KPX Aogonek uring -20  
KPX Aogonek v -55  
KPX Aogonek w -55  
KPX Aogonek y -55  
KPX Aogonek yacute -55  
KPX Aogonek ydieresis -55  
KPX Aring C -30  
KPX Aring Cacute -30  
KPX Aring Ccaron -30  
KPX Aring Ccedilla -30  
KPX Aring G -35  
KPX Aring Gbreve -35  
KPX Aring Gcommaaccent -35  
KPX Aring O -40  
KPX Aring Oacute -40  
KPX Aring Ocircumflex -40  
KPX Aring Odieresis -40  
KPX Aring Ograve -40  
KPX Aring Ohungarumlaut -40  
KPX Aring Omacron -40  
KPX Aring Oslash -40  
KPX Aring Otilde -40  
KPX Aring Q -40  
KPX Aring T -37  
KPX Aring Tcaron -37  
KPX Aring Tcommaaccent -37  
KPX Aring U -50  
KPX Aring Uacute -50  
KPX Aring Ucircumflex -50  
KPX Aring Udieresis -50  
KPX Aring Ugrave -50

KPX Aring Uhungarumlaut -50  
KPX Aring Umacron -50  
KPX Aring Uogonek -50  
KPX Aring Uring -50  
KPX Aring V -105  
KPX Aring W -95  
KPX Aring Y -55  
KPX Aring Yacute -55  
KPX Aring Ydieresis -55  
KPX Aring quoteright -37  
KPX Aring u -20  
KPX Aring uacute -20  
KPX Aring ucircumflex -20  
KPX Aring udieresis -20  
KPX Aring ugrave -20  
KPX Aring uhungarumlaut -20  
KPX Aring umacron -20  
KPX Aring uogonek -20  
KPX Aring uring -20  
KPX Aring v -55  
KPX Aring w -55  
KPX Aring y -55  
KPX Aring yacute -55  
KPX Aring ydieresis -55  
KPX Atilde C -30  
KPX Atilde Cacute -30  
KPX Atilde Ccaron -30  
KPX Atilde Ccedilla -30  
KPX Atilde G -35  
KPX Atilde Gbreve -35  
KPX Atilde Gcommaaccent -35  
KPX Atilde O -40  
KPX Atilde Oacute -40  
KPX Atilde Ocircumflex -40  
KPX Atilde Odieresis -40  
KPX Atilde Ograve -40  
KPX Atilde Ohungarumlaut -40  
KPX Atilde Omacron -40  
KPX Atilde Oslash -40  
KPX Atilde Otilde -40  
KPX Atilde Q -40  
KPX Atilde T -37  
KPX Atilde Tcaron -37  
KPX Atilde Tcommaaccent -37  
KPX Atilde U -50  
KPX Atilde Uacute -50  
KPX Atilde Ucircumflex -50  
KPX Atilde Udieresis -50



KPX Atilde Ugrave -50  
KPX Atilde Uhungarumlaut -50  
KPX Atilde Umacron -50  
KPX Atilde Uogonek -50  
KPX Atilde Uring -50  
KPX Atilde V -105  
KPX Atilde W -95  
KPX Atilde Y -55  
KPX Atilde Yacute -55  
KPX Atilde Ydieresis -55  
KPX Atilde quoteright -37  
KPX Atilde u -20  
KPX Atilde uacute -20  
KPX Atilde ucircumflex -20  
KPX Atilde udieresis -20  
KPX Atilde ugrave -20  
KPX Atilde uhungarumlaut -20  
KPX Atilde umacron -20  
KPX Atilde uogonek -20  
KPX Atilde uring -20  
KPX Atilde v -55  
KPX Atilde w -55  
KPX Atilde y -55  
KPX Atilde yacute -55  
KPX Atilde ydieresis -55  
KPX B A -25  
KPX B Aacute -25  
KPX B Abreve -25  
KPX B Acircumflex -25  
KPX B Adieresis -25  
KPX B Agrave -25  
KPX B Amacron -25  
KPX B Aogonek -25  
KPX B Aring -25  
KPX B Atilde -25  
KPX B U -10  
KPX B Uacute -10  
KPX B Ucircumflex -10  
KPX B Udieresis -10  
KPX B Ugrave -10  
KPX B Uhungarumlaut -10  
KPX B Umacron -10  
KPX B Uogonek -10  
KPX B Uring -10  
KPX D A -35  
KPX D Aacute -35  
KPX D Abreve -35  
KPX D Acircumflex -35

KPX D Adieresis -35  
KPX D Agrave -35  
KPX D Amacron -35  
KPX D Aogonek -35  
KPX D Aring -35  
KPX D Atilde -35  
KPX D V -40  
KPX D W -40  
KPX D Y -40  
KPX D Yacute -40  
KPX D Ydieresis -40  
KPX Dcaron A -35  
KPX Dcaron Aacute -35  
KPX Dcaron Abreve -35  
KPX Dcaron Acircumflex -35  
KPX Dcaron Adieresis -35  
KPX Dcaron Agrave -35  
KPX Dcaron Amacron -35  
KPX Dcaron Aogonek -35  
KPX Dcaron Aring -35  
KPX Dcaron Atilde -35  
KPX Dcaron V -40  
KPX Dcaron W -40  
KPX Dcaron Y -40  
KPX Dcaron Yacute -40  
KPX Dcaron Ydieresis -40  
KPX Dcroat A -35  
KPX Dcroat Aacute -35  
KPX Dcroat Abreve -35  
KPX Dcroat Acircumflex -35  
KPX Dcroat Adieresis -35  
KPX Dcroat Agrave -35  
KPX Dcroat Amacron -35  
KPX Dcroat Aogonek -35  
KPX Dcroat Aring -35  
KPX Dcroat Atilde -35  
KPX Dcroat V -40  
KPX Dcroat W -40  
KPX Dcroat Y -40  
KPX Dcroat Yacute -40  
KPX Dcroat Ydieresis -40  
KPX F A -115  
KPX F Aacute -115  
KPX F Abreve -115  
KPX F Acircumflex -115  
KPX F Adieresis -115  
KPX F Agrave -115  
KPX F Amacron -115

KPX F Aogonek -115  
KPX F Aring -115  
KPX F Atilde -115  
KPX F a -75  
KPX F aacute -75  
KPX F abreve -75  
KPX F acircumflex -75  
KPX F adieresis -75  
KPX F agrave -75  
KPX F amacron -75  
KPX F aogonek -75  
KPX F aring -75  
KPX F atilde -75  
KPX F comma -135  
KPX F e -75  
KPX F eacute -75  
KPX F ecaron -75  
KPX F ecircumflex -75  
KPX F edieresis -75  
KPX F edotaccent -75  
KPX F egrave -75  
KPX F emacron -75  
KPX F eogonek -75  
KPX F i -45  
KPX F iacute -45  
KPX F icircumflex -45  
KPX F idieresis -45  
KPX F igrave -45  
KPX F imacron -45  
KPX F iogonek -45  
KPX F o -105  
KPX F oacute -105  
KPX F ocircumflex -105  
KPX F odieresis -105  
KPX F ograve -105  
KPX F ohungarumlaut -105  
KPX F omacron -105  
KPX F oslash -105  
KPX F otilde -105  
KPX F period -135  
KPX F r -55  
KPX F racute -55  
KPX F rcaron -55  
KPX F rcommaaccent -55  
KPX J A -40  
KPX J Aacute -40  
KPX J Abreve -40  
KPX J Acircumflex -40

KPX J Adieresis -40  
KPX J Agrave -40  
KPX J Amacron -40  
KPX J Aogonek -40  
KPX J Aring -40  
KPX J Atilde -40  
KPX J a -35  
KPX J aacute -35  
KPX J abreve -35  
KPX J acircumflex -35  
KPX J adieresis -35  
KPX J agrave -35  
KPX J amacron -35  
KPX J aogonek -35  
KPX J aring -35  
KPX J atilde -35  
KPX J comma -25  
KPX J e -25  
KPX J eacute -25  
KPX J ecaron -25  
KPX J ecircumflex -25  
KPX J edieresis -25  
KPX J edotaccent -25  
KPX J egrave -25  
KPX J emacron -25  
KPX J eogonek -25  
KPX J o -25  
KPX J oacute -25  
KPX J ocircumflex -25  
KPX J odieresis -25  
KPX J ograve -25  
KPX J ohungarumlaut -25  
KPX J omacron -25  
KPX J oslash -25  
KPX J otilde -25  
KPX J period -25  
KPX J u -35  
KPX J uacute -35  
KPX J ucircumflex -35  
KPX J udieresis -35  
KPX J ugrave -35  
KPX J uhungarumlaut -35  
KPX J umacron -35  
KPX J uogonek -35  
KPX J uring -35  
KPX K O -50  
KPX K Oacute -50  
KPX K Ocircumflex -50

KPX K Odieresis -50  
KPX K Ograve -50  
KPX K Ohungarumlaut -50  
KPX K Omacron -50  
KPX K Oslash -50  
KPX K Otilde -50  
KPX K e -35  
KPX K eacute -35  
KPX K ecaron -35  
KPX K ecircumflex -35  
KPX K edieresis -35  
KPX K edotaccent -35  
KPX K egrave -35  
KPX K emacron -35  
KPX K eogonek -35  
KPX K o -40  
KPX K oacute -40  
KPX K ocircumflex -40  
KPX K odieresis -40  
KPX K ograve -40  
KPX K ohungarumlaut -40  
KPX K omacron -40  
KPX K oslash -40  
KPX K otilde -40  
KPX K u -40  
KPX K uacute -40  
KPX K ucircumflex -40  
KPX K udieresis -40  
KPX K ugrave -40  
KPX K uhungarumlaut -40  
KPX K umacron -40  
KPX K uogonek -40  
KPX K uring -40  
KPX K y -40  
KPX K yacute -40  
KPX K ydieresis -40  
KPX Kcommaaccent O -50  
KPX Kcommaaccent Oacute -50  
KPX Kcommaaccent Ocircumflex -50  
KPX Kcommaaccent Odieresis -50  
KPX Kcommaaccent Ograve -50  
KPX Kcommaaccent Ohungarumlaut -50  
KPX Kcommaaccent Omacron -50  
KPX Kcommaaccent Oslash -50  
KPX Kcommaaccent Otilde -50  
KPX Kcommaaccent e -35  
KPX Kcommaaccent eacute -35  
KPX Kcommaaccent ecaron -35

KPX Kcommaaccent ecircumflex -35  
KPX Kcommaaccent edieresis -35  
KPX Kcommaaccent edotaccent -35  
KPX Kcommaaccent egrave -35  
KPX Kcommaaccent emacron -35  
KPX Kcommaaccent eogonek -35  
KPX Kcommaaccent o -40  
KPX Kcommaaccent oacute -40  
KPX Kcommaaccent ocircumflex -40  
KPX Kcommaaccent odieresis -40  
KPX Kcommaaccent ograve -40  
KPX Kcommaaccent ohungarumlaut -40  
KPX Kcommaaccent omacron -40  
KPX Kcommaaccent oslash -40  
KPX Kcommaaccent otilde -40  
KPX Kcommaaccent u -40  
KPX Kcommaaccent uacute -40  
KPX Kcommaaccent ucircumflex -40  
KPX Kcommaaccent udieresis -40  
KPX Kcommaaccent ugrave -40  
KPX Kcommaaccent uhungarumlaut -40  
KPX Kcommaaccent umacron -40  
KPX Kcommaaccent uogonek -40  
KPX Kcommaaccent uring -40  
KPX Kcommaaccent y -40  
KPX Kcommaaccent yacute -40  
KPX Kcommaaccent ydieresis -40  
KPX L T -20  
KPX L Tcaron -20  
KPX L Tcommaaccent -20  
KPX L V -55  
KPX L W -55  
KPX L Y -20  
KPX L Yacute -20  
KPX L Ydieresis -20  
KPX L quoteright -37  
KPX L y -30  
KPX L yacute -30  
KPX L ydieresis -30  
KPX Lacute T -20  
KPX Lacute Tcaron -20  
KPX Lacute Tcommaaccent -20  
KPX Lacute V -55  
KPX Lacute W -55  
KPX Lacute Y -20  
KPX Lacute Yacute -20  
KPX Lacute Ydieresis -20  
KPX Lacute quoteright -37

KPX Lacute y -30  
KPX Lacute yacute -30  
KPX Lacute ydieresis -30  
KPX Lcommaaccent T -20  
KPX Lcommaaccent Tcaron -20  
KPX Lcommaaccent Tcommaaccent -20  
KPX Lcommaaccent V -55  
KPX Lcommaaccent W -55  
KPX Lcommaaccent Y -20  
KPX Lcommaaccent Yacute -20  
KPX Lcommaaccent Ydieresis -20  
KPX Lcommaaccent quoteright -37  
KPX Lcommaaccent y -30  
KPX Lcommaaccent yacute -30  
KPX Lcommaaccent ydieresis -30  
KPX Lslash T -20  
KPX Lslash Tcaron -20  
KPX Lslash Tcommaaccent -20  
KPX Lslash V -55  
KPX Lslash W -55  
KPX Lslash Y -20  
KPX Lslash Yacute -20  
KPX Lslash Ydieresis -20  
KPX Lslash quoteright -37  
KPX Lslash y -30  
KPX Lslash yacute -30  
KPX Lslash ydieresis -30  
KPX N A -27  
KPX N Aacute -27  
KPX N Abreve -27  
KPX N Acircumflex -27  
KPX N Adieresis -27  
KPX N Agrave -27  
KPX N Amacron -27  
KPX N Aogonek -27  
KPX N Aring -27  
KPX N Atilde -27  
KPX Nacute A -27  
KPX Nacute Aacute -27  
KPX Nacute Abreve -27  
KPX Nacute Acircumflex -27  
KPX Nacute Adieresis -27  
KPX Nacute Agrave -27  
KPX Nacute Amacron -27  
KPX Nacute Aogonek -27  
KPX Nacute Aring -27  
KPX Nacute Atilde -27  
KPX Ncaron A -27

KPX Ncaron Aacute -27  
KPX Ncaron Abreve -27  
KPX Ncaron Acircumflex -27  
KPX Ncaron Adieresis -27  
KPX Ncaron Agrave -27  
KPX Ncaron Amacron -27  
KPX Ncaron Aogonek -27  
KPX Ncaron Aring -27  
KPX Ncaron Atilde -27  
KPX Ncommaaccent A -27  
KPX Ncommaaccent Aacute -27  
KPX Ncommaaccent Abreve -27  
KPX Ncommaaccent Acircumflex -27  
KPX Ncommaaccent Adieresis -27  
KPX Ncommaaccent Agrave -27  
KPX Ncommaaccent Amacron -27  
KPX Ncommaaccent Aogonek -27  
KPX Ncommaaccent Aring -27  
KPX Ncommaaccent Atilde -27  
KPX Ntilde A -27  
KPX Ntilde Aacute -27  
KPX Ntilde Abreve -27  
KPX Ntilde Acircumflex -27  
KPX Ntilde Adieresis -27  
KPX Ntilde Agrave -27  
KPX Ntilde Amacron -27  
KPX Ntilde Aogonek -27  
KPX Ntilde Aring -27  
KPX Ntilde Atilde -27  
KPX O A -55  
KPX O Aacute -55  
KPX O Abreve -55  
KPX O Acircumflex -55  
KPX O Adieresis -55  
KPX O Agrave -55  
KPX O Amacron -55  
KPX O Aogonek -55  
KPX O Aring -55  
KPX O Atilde -55  
KPX O T -40  
KPX O Tcaron -40  
KPX O Tcommaaccent -40  
KPX O V -50  
KPX O W -50  
KPX O X -40  
KPX O Y -50  
KPX O Yacute -50  
KPX O Ydieresis -50



KPX Oacute A -55  
KPX Oacute Aacute -55  
KPX Oacute Abreve -55  
KPX Oacute Acircumflex -55  
KPX Oacute Adieresis -55  
KPX Oacute Agrave -55  
KPX Oacute Amacron -55  
KPX Oacute Aogonek -55  
KPX Oacute Aring -55  
KPX Oacute Atilde -55  
KPX Oacute T -40  
KPX Oacute Tcaron -40  
KPX Oacute Tcommaaccent -40  
KPX Oacute V -50  
KPX Oacute W -50  
KPX Oacute X -40  
KPX Oacute Y -50  
KPX Oacute Yacute -50  
KPX Oacute Ydieresis -50  
KPX Ocircumflex A -55  
KPX Ocircumflex Aacute -55  
KPX Ocircumflex Abreve -55  
KPX Ocircumflex Acircumflex -55  
KPX Ocircumflex Adieresis -55  
KPX Ocircumflex Agrave -55  
KPX Ocircumflex Amacron -55  
KPX Ocircumflex Aogonek -55  
KPX Ocircumflex Aring -55  
KPX Ocircumflex Atilde -55  
KPX Ocircumflex T -40  
KPX Ocircumflex Tcaron -40  
KPX Ocircumflex Tcommaaccent -40  
KPX Ocircumflex V -50  
KPX Ocircumflex W -50  
KPX Ocircumflex X -40  
KPX Ocircumflex Y -50  
KPX Ocircumflex Yacute -50  
KPX Ocircumflex Ydieresis -50  
KPX Odieresis A -55  
KPX Odieresis Aacute -55  
KPX Odieresis Abreve -55  
KPX Odieresis Acircumflex -55  
KPX Odieresis Adieresis -55  
KPX Odieresis Agrave -55  
KPX Odieresis Amacron -55  
KPX Odieresis Aogonek -55  
KPX Odieresis Aring -55  
KPX Odieresis Atilde -55

KPX Odieresis T -40  
KPX Odieresis Tcaron -40  
KPX Odieresis Tcommaaccent -40  
KPX Odieresis V -50  
KPX Odieresis W -50  
KPX Odieresis X -40  
KPX Odieresis Y -50  
KPX Odieresis Yacute -50  
KPX Odieresis Ydieresis -50  
KPX Ograve A -55  
KPX Ograve Aacute -55  
KPX Ograve Abreve -55  
KPX Ograve Acircumflex -55  
KPX Ograve Adieresis -55  
KPX Ograve Agrave -55  
KPX Ograve Amacron -55  
KPX Ograve Aogonek -55  
KPX Ograve Aring -55  
KPX Ograve Atilde -55  
KPX Ograve T -40  
KPX Ograve Tcaron -40  
KPX Ograve Tcommaaccent -40  
KPX Ograve V -50  
KPX Ograve W -50  
KPX Ograve X -40  
KPX Ograve Y -50  
KPX Ograve Yacute -50  
KPX Ograve Ydieresis -50  
KPX Ohungarumlaut A -55  
KPX Ohungarumlaut Aacute -55  
KPX Ohungarumlaut Abreve -55  
KPX Ohungarumlaut Acircumflex -55  
KPX Ohungarumlaut Adieresis -55  
KPX Ohungarumlaut Agrave -55  
KPX Ohungarumlaut Amacron -55  
KPX Ohungarumlaut Aogonek -55  
KPX Ohungarumlaut Aring -55  
KPX Ohungarumlaut Atilde -55  
KPX Ohungarumlaut T -40  
KPX Ohungarumlaut Tcaron -40  
KPX Ohungarumlaut Tcommaaccent -40  
KPX Ohungarumlaut V -50  
KPX Ohungarumlaut W -50  
KPX Ohungarumlaut X -40  
KPX Ohungarumlaut Y -50  
KPX Ohungarumlaut Yacute -50  
KPX Ohungarumlaut Ydieresis -50  
KPX Omacron A -55

KPX Omacron Aacute -55  
KPX Omacron Abreve -55  
KPX Omacron Acircumflex -55  
KPX Omacron Adieresis -55  
KPX Omacron Agrave -55  
KPX Omacron Amacron -55  
KPX Omacron Aogonek -55  
KPX Omacron Aring -55  
KPX Omacron Atilde -55  
KPX Omacron T -40  
KPX Omacron Tcaron -40  
KPX Omacron Tcommaaccent -40  
KPX Omacron V -50  
KPX Omacron W -50  
KPX Omacron X -40  
KPX Omacron Y -50  
KPX Omacron Yacute -50  
KPX Omacron Ydieresis -50  
KPX Oslash A -55  
KPX Oslash Aacute -55  
KPX Oslash Abreve -55  
KPX Oslash Acircumflex -55  
KPX Oslash Adieresis -55  
KPX Oslash Agrave -55  
KPX Oslash Amacron -55  
KPX Oslash Aogonek -55  
KPX Oslash Aring -55  
KPX Oslash Atilde -55  
KPX Oslash T -40  
KPX Oslash Tcaron -40  
KPX Oslash Tcommaaccent -40  
KPX Oslash V -50  
KPX Oslash W -50  
KPX Oslash X -40  
KPX Oslash Y -50  
KPX Oslash Yacute -50  
KPX Oslash Ydieresis -50  
KPX Otilde A -55  
KPX Otilde Aacute -55  
KPX Otilde Abreve -55  
KPX Otilde Acircumflex -55  
KPX Otilde Adieresis -55  
KPX Otilde Agrave -55  
KPX Otilde Amacron -55  
KPX Otilde Aogonek -55  
KPX Otilde Aring -55  
KPX Otilde Atilde -55  
KPX Otilde T -40

KPX Otilde Tcaron -40  
KPX Otilde Tcommaaccent -40  
KPX Otilde V -50  
KPX Otilde W -50  
KPX Otilde X -40  
KPX Otilde Y -50  
KPX Otilde Yacute -50  
KPX Otilde Ydieresis -50  
KPX P A -90  
KPX P Aacute -90  
KPX P Abreve -90  
KPX P Acircumflex -90  
KPX P Adieresis -90  
KPX P Agrave -90  
KPX P Amacron -90  
KPX P Aogonek -90  
KPX P Aring -90  
KPX P Atilde -90  
KPX P a -80  
KPX P aacute -80  
KPX P abreve -80  
KPX P acircumflex -80  
KPX P adieresis -80  
KPX P agrave -80  
KPX P amacron -80  
KPX P aogonek -80  
KPX P aring -80  
KPX P atilde -80  
KPX P comma -135  
KPX P e -80  
KPX P eacute -80  
KPX P ecaron -80  
KPX P ecircumflex -80  
KPX P edieresis -80  
KPX P edotaccent -80  
KPX P egrave -80  
KPX P emacron -80  
KPX P eogonek -80  
KPX P o -80  
KPX P oacute -80  
KPX P ocircumflex -80  
KPX P odieresis -80  
KPX P ograve -80  
KPX P ohungarumlaut -80  
KPX P omacron -80  
KPX P oslash -80  
KPX P otilde -80  
KPX P period -135

KPX Q U -10  
KPX Q Uacute -10  
KPX Q Ucircumflex -10  
KPX Q Udieresis -10  
KPX Q Ugrave -10  
KPX Q Uhungarumlaut -10  
KPX Q Umacron -10  
KPX Q Uogonek -10  
KPX Q Uring -10  
KPX R O -40  
KPX R Oacute -40  
KPX R Ocircumflex -40  
KPX R Odieresis -40  
KPX R Ograve -40  
KPX R Ohungarumlaut -40  
KPX R Omacron -40  
KPX R Oslash -40  
KPX R Otilde -40  
KPX R U -40  
KPX R Uacute -40  
KPX R Ucircumflex -40  
KPX R Udieresis -40  
KPX R Ugrave -40  
KPX R Uhungarumlaut -40  
KPX R Umacron -40  
KPX R Uogonek -40  
KPX R Uring -40  
KPX R V -18  
KPX R W -18  
KPX R Y -18  
KPX R Yacute -18  
KPX R Ydieresis -18  
KPX Racute O -40  
KPX Racute Oacute -40  
KPX Racute Ocircumflex -40  
KPX Racute Odieresis -40  
KPX Racute Ograve -40  
KPX Racute Ohungarumlaut -40  
KPX Racute Omacron -40  
KPX Racute Oslash -40  
KPX Racute Otilde -40  
KPX Racute U -40  
KPX Racute Uacute -40  
KPX Racute Ucircumflex -40  
KPX Racute Udieresis -40  
KPX Racute Ugrave -40  
KPX Racute Uhungarumlaut -40  
KPX Racute Umacron -40

KPX Racute Uogonek -40  
KPX Racute Uring -40  
KPX Racute V -18  
KPX Racute W -18  
KPX Racute Y -18  
KPX Racute Yacute -18  
KPX Racute Ydieresis -18  
KPX Rcaron O -40  
KPX Rcaron Oacute -40  
KPX Rcaron Ocircumflex -40  
KPX Rcaron Odieresis -40  
KPX Rcaron Ograve -40  
KPX Rcaron Ohungarumlaut -40  
KPX Rcaron Omacron -40  
KPX Rcaron Oslash -40  
KPX Rcaron Otilde -40  
KPX Rcaron U -40  
KPX Rcaron Uacute -40  
KPX Rcaron Ucircumflex -40  
KPX Rcaron Udieresis -40  
KPX Rcaron Ugrave -40  
KPX Rcaron Uhungarumlaut -40  
KPX Rcaron Umacron -40  
KPX Rcaron Uogonek -40  
KPX Rcaron Uring -40  
KPX Rcaron V -18  
KPX Rcaron W -18  
KPX Rcaron Y -18  
KPX Rcaron Yacute -18  
KPX Rcaron Ydieresis -18  
KPX Rcommaaccent O -40  
KPX Rcommaaccent Oacute -40  
KPX Rcommaaccent Ocircumflex -40  
KPX Rcommaaccent Odieresis -40  
KPX Rcommaaccent Ograve -40  
KPX Rcommaaccent Ohungarumlaut -40  
KPX Rcommaaccent Omacron -40  
KPX Rcommaaccent Oslash -40  
KPX Rcommaaccent Otilde -40  
KPX Rcommaaccent U -40  
KPX Rcommaaccent Uacute -40  
KPX Rcommaaccent Ucircumflex -40  
KPX Rcommaaccent Udieresis -40  
KPX Rcommaaccent Ugrave -40  
KPX Rcommaaccent Uhungarumlaut -40  
KPX Rcommaaccent Umacron -40  
KPX Rcommaaccent Uogonek -40  
KPX Rcommaaccent Uring -40

KPX Rcommaaccent V -18  
KPX Rcommaaccent W -18  
KPX Rcommaaccent Y -18  
KPX Rcommaaccent Yacute -18  
KPX Rcommaaccent Ydieresis -18  
KPX T A -50  
KPX T Aacute -50  
KPX T Abreve -50  
KPX T Acircumflex -50  
KPX T Adieresis -50  
KPX T Agrave -50  
KPX T Amacron -50  
KPX T Aogonek -50  
KPX T Aring -50  
KPX T Atilde -50  
KPX T O -18  
KPX T Oacute -18  
KPX T Ocircumflex -18  
KPX T Odieresis -18  
KPX T Ograve -18  
KPX T Ohungarumlaut -18  
KPX T Omacron -18  
KPX T Oslash -18  
KPX T Otilde -18  
KPX T a -92  
KPX T aacute -92  
KPX T abreve -92  
KPX T acircumflex -92  
KPX T adieresis -92  
KPX T agrave -92  
KPX T amacron -92  
KPX T aogonek -92  
KPX T aring -92  
KPX T atilde -92  
KPX T colon -55  
KPX T comma -74  
KPX T e -92  
KPX T eacute -92  
KPX T ecaron -92  
KPX T ecircumflex -52  
KPX T edieresis -52  
KPX T edotaccent -92  
KPX T egrave -52  
KPX T emacron -52  
KPX T eogonek -92  
KPX T hyphen -74  
KPX T i -55  
KPX T iacute -55

KPX T iogonek -55  
KPX T o -92  
KPX T oacute -92  
KPX T ocircumflex -92  
KPX T odieresis -92  
KPX T ograve -92  
KPX T ohungarumlaut -92  
KPX T omacron -92  
KPX T oslash -92  
KPX T otilde -92  
KPX T period -74  
KPX T r -55  
KPX T racute -55  
KPX T rcaron -55  
KPX T rcommaaccent -55  
KPX T semicolon -65  
KPX T u -55  
KPX T uacute -55  
KPX T ucircumflex -55  
KPX T udieresis -55  
KPX T ugrave -55  
KPX T uhungarumlaut -55  
KPX T umacron -55  
KPX T uogonek -55  
KPX T uring -55  
KPX T w -74  
KPX T y -74  
KPX T yacute -74  
KPX T ydieresis -34  
KPX Tcaron A -50  
KPX Tcaron Aacute -50  
KPX Tcaron Abreve -50  
KPX Tcaron Acircumflex -50  
KPX Tcaron Adieresis -50  
KPX Tcaron Agrave -50  
KPX Tcaron Amacron -50  
KPX Tcaron Aogonek -50  
KPX Tcaron Aring -50  
KPX Tcaron Atilde -50  
KPX Tcaron O -18  
KPX Tcaron Oacute -18  
KPX Tcaron Ocircumflex -18  
KPX Tcaron Odieresis -18  
KPX Tcaron Ograve -18  
KPX Tcaron Ohungarumlaut -18  
KPX Tcaron Omacron -18  
KPX Tcaron Oslash -18  
KPX Tcaron Otilde -18



KPX Tcaron a -92  
KPX Tcaron aacute -92  
KPX Tcaron abreve -92  
KPX Tcaron acircumflex -92  
KPX Tcaron adieresis -92  
KPX Tcaron agrave -92  
KPX Tcaron amacron -92  
KPX Tcaron aogonek -92  
KPX Tcaron aring -92  
KPX Tcaron atilde -92  
KPX Tcaron colon -55  
KPX Tcaron comma -74  
KPX Tcaron e -92  
KPX Tcaron eacute -92  
KPX Tcaron ecaron -92  
KPX Tcaron ecircumflex -52  
KPX Tcaron edieresis -52  
KPX Tcaron edotaccent -92  
KPX Tcaron egrave -52  
KPX Tcaron emacron -52  
KPX Tcaron eogonek -92  
KPX Tcaron hyphen -74  
KPX Tcaron i -55  
KPX Tcaron iacute -55  
KPX Tcaron iogonek -55  
KPX Tcaron o -92  
KPX Tcaron oacute -92  
KPX Tcaron ocircumflex -92  
KPX Tcaron odieresis -92  
KPX Tcaron ograve -92  
KPX Tcaron ohungarumlaut -92  
KPX Tcaron omacron -92  
KPX Tcaron oslash -92  
KPX Tcaron otilde -92  
KPX Tcaron period -74  
KPX Tcaron r -55  
KPX Tcaron racute -55  
KPX Tcaron rcaron -55  
KPX Tcaron rcommaaccent -55  
KPX Tcaron semicolon -65  
KPX Tcaron u -55  
KPX Tcaron uacute -55  
KPX Tcaron ucircumflex -55  
KPX Tcaron udieresis -55  
KPX Tcaron ugrave -55  
KPX Tcaron uhungarumlaut -55  
KPX Tcaron umacron -55  
KPX Tcaron uogonek -55

KPX Tcaron uring -55  
KPX Tcaron w -74  
KPX Tcaron y -74  
KPX Tcaron yacute -74  
KPX Tcaron ydieresis -34  
KPX Tcommaaccent A -50  
KPX Tcommaaccent Aacute -50  
KPX Tcommaaccent Abreve -50  
KPX Tcommaaccent Acircumflex -50  
KPX Tcommaaccent Adieresis -50  
KPX Tcommaaccent Agrave -50  
KPX Tcommaaccent Amacron -50  
KPX Tcommaaccent Aogonek -50  
KPX Tcommaaccent Aring -50  
KPX Tcommaaccent Atilde -50  
KPX Tcommaaccent O -18  
KPX Tcommaaccent Oacute -18  
KPX Tcommaaccent Ocircumflex -18  
KPX Tcommaaccent Odieresis -18  
KPX Tcommaaccent Ograve -18  
KPX Tcommaaccent Ohungarumlaut -18  
KPX Tcommaaccent Omacron -18  
KPX Tcommaaccent Oslash -18  
KPX Tcommaaccent Otilde -18  
KPX Tcommaaccent a -92  
KPX Tcommaaccent aacute -92  
KPX Tcommaaccent abreve -92  
KPX Tcommaaccent acircumflex -92  
KPX Tcommaaccent adieresis -92  
KPX Tcommaaccent agrave -92  
KPX Tcommaaccent amacron -92  
KPX Tcommaaccent aogonek -92  
KPX Tcommaaccent aring -92  
KPX Tcommaaccent atilde -92  
KPX Tcommaaccent colon -55  
KPX Tcommaaccent comma -74  
KPX Tcommaaccent e -92  
KPX Tcommaaccent eacute -92  
KPX Tcommaaccent ecaron -92  
KPX Tcommaaccent ecircumflex -52  
KPX Tcommaaccent edieresis -52  
KPX Tcommaaccent edotaccent -92  
KPX Tcommaaccent egrave -52  
KPX Tcommaaccent emacron -52  
KPX Tcommaaccent eogonek -92  
KPX Tcommaaccent hyphen -74  
KPX Tcommaaccent i -55  
KPX Tcommaaccent iacute -55

KPX Tcommaaccentiogonek -55  
KPX Tcommaaccento -92  
KPX Tcommaaccentoacute -92  
KPX Tcommaaccentocircumflex -92  
KPX Tcommaaccentodieresis -92  
KPX Tcommaaccentograve -92  
KPX Tcommaaccentohungarumlaut -92  
KPX Tcommaaccentomacron -92  
KPX Tcommaaccentoslash -92  
KPX Tcommaaccentotilde -92  
KPX Tcommaaccentperiod -74  
KPX Tcommaaccentr -55  
KPX Tcommaaccentracute -55  
KPX Tcommaaccentrcaron -55  
KPX Tcommaaccentrcommaaccent -55  
KPX Tcommaaccentsemicolon -65  
KPX Tcommaaccentu -55  
KPX Tcommaaccentuacute -55  
KPX Tcommaaccentucircumflex -55  
KPX Tcommaaccentudieresis -55  
KPX Tcommaaccentugrave -55  
KPX Tcommaaccentuhungarumlaut -55  
KPX Tcommaaccentumacron -55  
KPX Tcommaaccentuogonek -55  
KPX Tcommaaccenturing -55  
KPX Tcommaaccentw -74  
KPX Tcommaaccenty -74  
KPX Tcommaaccentyacute -74  
KPX Tcommaaccentydieresis -34  
KPX U A -40  
KPX U Aacute -40  
KPX U Abreve -40  
KPX U Acircumflex -40  
KPX U Adieresis -40  
KPX U Agrave -40  
KPX U Amacron -40  
KPX U Aogonek -40  
KPX U Aring -40  
KPX U Atilde -40  
KPX U comma -25  
KPX U period -25  
KPX Uacute A -40  
KPX Uacute Aacute -40  
KPX Uacute Abreve -40  
KPX Uacute Acircumflex -40  
KPX Uacute Adieresis -40  
KPX Uacute Agrave -40  
KPX Uacute Amacron -40

KPX Uacute Aogonek -40  
KPX Uacute Aring -40  
KPX Uacute Atilde -40  
KPX Uacute comma -25  
KPX Uacute period -25  
KPX Ucircumflex A -40  
KPX Ucircumflex Aacute -40  
KPX Ucircumflex Abreve -40  
KPX Ucircumflex Acircumflex -40  
KPX Ucircumflex Adieresis -40  
KPX Ucircumflex Agrave -40  
KPX Ucircumflex Amacron -40  
KPX Ucircumflex Aogonek -40  
KPX Ucircumflex Aring -40  
KPX Ucircumflex Atilde -40  
KPX Ucircumflex comma -25  
KPX Ucircumflex period -25  
KPX Udieresis A -40  
KPX Udieresis Aacute -40  
KPX Udieresis Abreve -40  
KPX Udieresis Acircumflex -40  
KPX Udieresis Adieresis -40  
KPX Udieresis Agrave -40  
KPX Udieresis Amacron -40  
KPX Udieresis Aogonek -40  
KPX Udieresis Aring -40  
KPX Udieresis Atilde -40  
KPX Udieresis comma -25  
KPX Udieresis period -25  
KPX Ugrave A -40  
KPX Ugrave Aacute -40  
KPX Ugrave Abreve -40  
KPX Ugrave Acircumflex -40  
KPX Ugrave Adieresis -40  
KPX Ugrave Agrave -40  
KPX Ugrave Amacron -40  
KPX Ugrave Aogonek -40  
KPX Ugrave Aring -40  
KPX Ugrave Atilde -40  
KPX Ugrave comma -25  
KPX Ugrave period -25  
KPX Uhungarumlaut A -40  
KPX Uhungarumlaut Aacute -40  
KPX Uhungarumlaut Abreve -40  
KPX Uhungarumlaut Acircumflex -40  
KPX Uhungarumlaut Adieresis -40  
KPX Uhungarumlaut Agrave -40  
KPX Uhungarumlaut Amacron -40

KPX Uhungarumlaut Aogonek -40  
KPX Uhungarumlaut Aring -40  
KPX Uhungarumlaut Atilde -40  
KPX Uhungarumlaut comma -25  
KPX Uhungarumlaut period -25  
KPX Umacron A -40  
KPX Umacron Aacute -40  
KPX Umacron Abreve -40  
KPX Umacron Acircumflex -40  
KPX Umacron Adieresis -40  
KPX Umacron Agrave -40  
KPX Umacron Amacron -40  
KPX Umacron Aogonek -40  
KPX Umacron Aring -40  
KPX Umacron Atilde -40  
KPX Umacron comma -25  
KPX Umacron period -25  
KPX Uogonek A -40  
KPX Uogonek Aacute -40  
KPX Uogonek Abreve -40  
KPX Uogonek Acircumflex -40  
KPX Uogonek Adieresis -40  
KPX Uogonek Agrave -40  
KPX Uogonek Amacron -40  
KPX Uogonek Aogonek -40  
KPX Uogonek Aring -40  
KPX Uogonek Atilde -40  
KPX Uogonek comma -25  
KPX Uogonek period -25  
KPX Uring A -40  
KPX Uring Aacute -40  
KPX Uring Abreve -40  
KPX Uring Acircumflex -40  
KPX Uring Adieresis -40  
KPX Uring Agrave -40  
KPX Uring Amacron -40  
KPX Uring Aogonek -40  
KPX Uring Aring -40  
KPX Uring Atilde -40  
KPX Uring comma -25  
KPX Uring period -25  
KPX V A -60  
KPX V Aacute -60  
KPX V Abreve -60  
KPX V Acircumflex -60  
KPX V Adieresis -60  
KPX V Agrave -60  
KPX V Amacron -60

KPX V Aogonek -60  
KPX V Aring -60  
KPX V Atilde -60  
KPX V O -30  
KPX V Oacute -30  
KPX V Ocircumflex -30  
KPX V Odieresis -30  
KPX V Ograve -30  
KPX V Ohungarumlaut -30  
KPX V Omacron -30  
KPX V Oslash -30  
KPX V Otilde -30  
KPX V a -111  
KPX V aacute -111  
KPX V abreve -111  
KPX V acircumflex -111  
KPX V adieresis -111  
KPX V agrave -111  
KPX V amacron -111  
KPX V aogonek -111  
KPX V aring -111  
KPX V atilde -111  
KPX V colon -65  
KPX V comma -129  
KPX V e -111  
KPX V eacute -111  
KPX V ecaron -111  
KPX V ecircumflex -111  
KPX V edieresis -71  
KPX V edotaccent -111  
KPX V egrave -71  
KPX V emacron -71  
KPX V eogonek -111  
KPX V hyphen -55  
KPX V i -74  
KPX V iacute -74  
KPX V icircumflex -34  
KPX V idieresis -34  
KPX V igrave -34  
KPX V imacron -34  
KPX V iogonek -74  
KPX V o -111  
KPX V oacute -111  
KPX V ocircumflex -111  
KPX V odieresis -111  
KPX V ograve -111  
KPX V ohungarumlaut -111  
KPX V omacron -111

KPX V oslash -111  
KPX V otilde -111  
KPX V period -129  
KPX V semicolon -74  
KPX V u -74  
KPX V uacute -74  
KPX V ucircumflex -74  
KPX V udieresis -74  
KPX V ugrave -74  
KPX V uhungarumlaut -74  
KPX V umacron -74  
KPX V uogonek -74  
KPX V uring -74  
KPX W A -60  
KPX W Aacute -60  
KPX W Abreve -60  
KPX W Acircumflex -60  
KPX W Adieresis -60  
KPX W Agrave -60  
KPX W Amacron -60  
KPX W Aogonek -60  
KPX W Aring -60  
KPX W Atilde -60  
KPX W O -25  
KPX W Oacute -25  
KPX W Ocircumflex -25  
KPX W Odieresis -25  
KPX W Ograve -25  
KPX W Ohungarumlaut -25  
KPX W Omacron -25  
KPX W Oslash -25  
KPX W Otilde -25  
KPX W a -92  
KPX W aacute -92  
KPX W abreve -92  
KPX W acircumflex -92  
KPX W adieresis -92  
KPX W agrave -92  
KPX W amacron -92  
KPX W aogonek -92  
KPX W aring -92  
KPX W atilde -92  
KPX W colon -65  
KPX W comma -92  
KPX W e -92  
KPX W eacute -92  
KPX W ecaron -92  
KPX W ecircumflex -92

KPX W edieresis -52  
KPX W edotaccent -92  
KPX W egrave -52  
KPX W emacron -52  
KPX W eogonek -92  
KPX W hyphen -37  
KPX W i -55  
KPX W iacute -55  
KPX W iogonek -55  
KPX W o -92  
KPX W oacute -92  
KPX W ocircumflex -92  
KPX W odieresis -92  
KPX W ograve -92  
KPX W ohungarumlaut -92  
KPX W omacron -92  
KPX W oslash -92  
KPX W otilde -92  
KPX W period -92  
KPX W semicolon -65  
KPX W u -55  
KPX W uacute -55  
KPX W ucircumflex -55  
KPX W udieresis -55  
KPX W ugrave -55  
KPX W uhungarumlaut -55  
KPX W umacron -55  
KPX W uogonek -55  
KPX W uring -55  
KPX W y -70  
KPX W yacute -70  
KPX W ydieresis -70  
KPX Y A -50  
KPX Y Aacute -50  
KPX Y Abreve -50  
KPX Y Acircumflex -50  
KPX Y Adieresis -50  
KPX Y Agrave -50  
KPX Y Amacron -50  
KPX Y Aogonek -50  
KPX Y Aring -50  
KPX Y Atilde -50  
KPX Y O -15  
KPX Y Oacute -15  
KPX Y Ocircumflex -15  
KPX Y Odieresis -15  
KPX Y Ograve -15  
KPX Y Ohungarumlaut -15



KPX Y Omacron -15  
KPX Y Oslash -15  
KPX Y Otilde -15  
KPX Y a -92  
KPX Y aacute -92  
KPX Y abreve -92  
KPX Y acircumflex -92  
KPX Y adieresis -92  
KPX Y agrave -92  
KPX Y amacron -92  
KPX Y aogonek -92  
KPX Y aring -92  
KPX Y atilde -92  
KPX Y colon -65  
KPX Y comma -92  
KPX Y e -92  
KPX Y eacute -92  
KPX Y ecaron -92  
KPX Y ecircumflex -92  
KPX Y edieresis -52  
KPX Y edotaccent -92  
KPX Y egrave -52  
KPX Y emacron -52  
KPX Y eogonek -92  
KPX Y hyphen -74  
KPX Y i -74  
KPX Y iacute -74  
KPX Y icircumflex -34  
KPX Y idieresis -34  
KPX Y igrave -34  
KPX Y imacron -34  
KPX Y iogonek -74  
KPX Y o -92  
KPX Y oacute -92  
KPX Y ocircumflex -92  
KPX Y odieresis -92  
KPX Y ograve -92  
KPX Y ohungarumlaut -92  
KPX Y omacron -92  
KPX Y oslash -92  
KPX Y otilde -92  
KPX Y period -92  
KPX Y semicolon -65  
KPX Y u -92  
KPX Y uacute -92  
KPX Y ucircumflex -92  
KPX Y udieresis -92  
KPX Y ugrave -92

KPX Y uhungarumlaut -92  
KPX Y umacron -92  
KPX Y uogonek -92  
KPX Y uring -92  
KPX Yacute A -50  
KPX Yacute Aacute -50  
KPX Yacute Abreve -50  
KPX Yacute Acircumflex -50  
KPX Yacute Adieresis -50  
KPX Yacute Agrave -50  
KPX Yacute Amacron -50  
KPX Yacute Aogonek -50  
KPX Yacute Aring -50  
KPX Yacute Atilde -50  
KPX Yacute O -15  
KPX Yacute Oacute -15  
KPX Yacute Ocircumflex -15  
KPX Yacute Odieresis -15  
KPX Yacute Ograve -15  
KPX Yacute Ohungarumlaut -15  
KPX Yacute Omacron -15  
KPX Yacute Oslash -15  
KPX Yacute Otilde -15  
KPX Yacute a -92  
KPX Yacute aacute -92  
KPX Yacute abreve -92  
KPX Yacute acircumflex -92  
KPX Yacute adieresis -92  
KPX Yacute agrave -92  
KPX Yacute amacron -92  
KPX Yacute aogonek -92  
KPX Yacute aring -92  
KPX Yacute atilde -92  
KPX Yacute colon -65  
KPX Yacute comma -92  
KPX Yacute e -92  
KPX Yacute eacute -92  
KPX Yacute ecaron -92  
KPX Yacute ecircumflex -92  
KPX Yacute edieresis -52  
KPX Yacute edotaccent -92  
KPX Yacute egrave -52  
KPX Yacute emacron -52  
KPX Yacute eogonek -92  
KPX Yacute hyphen -74  
KPX Yacute i -74  
KPX Yacute iacute -74  
KPX Yacute icircumflex -34

KPX Yacute idieresis -34  
KPX Yacute igrave -34  
KPX Yacute imacron -34  
KPX Yacute iogonek -74  
KPX Yacute o -92  
KPX Yacute oacute -92  
KPX Yacute ocircumflex -92  
KPX Yacute odieresis -92  
KPX Yacute ograve -92  
KPX Yacute ohungarumlaut -92  
KPX Yacute omacron -92  
KPX Yacute oslash -92  
KPX Yacute otilde -92  
KPX Yacute period -92  
KPX Yacute semicolon -65  
KPX Yacute u -92  
KPX Yacute uacute -92  
KPX Yacute ucircumflex -92  
KPX Yacute udieresis -92  
KPX Yacute ugrave -92  
KPX Yacute uhungarumlaut -92  
KPX Yacute umacron -92  
KPX Yacute uogonek -92  
KPX Yacute uring -92  
KPX Ydieresis A -50  
KPX Ydieresis Aacute -50  
KPX Ydieresis Abreve -50  
KPX Ydieresis Acircumflex -50  
KPX Ydieresis Adieresis -50  
KPX Ydieresis Agrave -50  
KPX Ydieresis Amacron -50  
KPX Ydieresis Aogonek -50  
KPX Ydieresis Aring -50  
KPX Ydieresis Atilde -50  
KPX Ydieresis O -15  
KPX Ydieresis Oacute -15  
KPX Ydieresis Ocircumflex -15  
KPX Ydieresis Odieresis -15  
KPX Ydieresis Ograve -15  
KPX Ydieresis Ohungarumlaut -15  
KPX Ydieresis Omacron -15  
KPX Ydieresis Oslash -15  
KPX Ydieresis Otilde -15  
KPX Ydieresis a -92  
KPX Ydieresis aacute -92  
KPX Ydieresis abreve -92  
KPX Ydieresis acircumflex -92  
KPX Ydieresis adieresis -92

KPX Ydieresis agrave -92  
KPX Ydieresis amacron -92  
KPX Ydieresis aogonek -92  
KPX Ydieresis aring -92  
KPX Ydieresis atilde -92  
KPX Ydieresis colon -65  
KPX Ydieresis comma -92  
KPX Ydieresis e -92  
KPX Ydieresis eacute -92  
KPX Ydieresis ecaron -92  
KPX Ydieresis ecircumflex -92  
KPX Ydieresis edieresis -52  
KPX Ydieresis edotaccent -92  
KPX Ydieresis egrave -52  
KPX Ydieresis emacron -52  
KPX Ydieresis eogonek -92  
KPX Ydieresis hyphen -74  
KPX Ydieresis i -74  
KPX Ydieresis iacute -74  
KPX Ydieresis icircumflex -34  
KPX Ydieresis idieresis -34  
KPX Ydieresis igrave -34  
KPX Ydieresis imacron -34  
KPX Ydieresis iogonek -74  
KPX Ydieresis o -92  
KPX Ydieresis oacute -92  
KPX Ydieresis ocircumflex -92  
KPX Ydieresis odieresis -92  
KPX Ydieresis ograve -92  
KPX Ydieresis ohungarumlaut -92  
KPX Ydieresis omacron -92  
KPX Ydieresis oslash -92  
KPX Ydieresis otilde -92  
KPX Ydieresis period -92  
KPX Ydieresis semicolon -65  
KPX Ydieresis u -92  
KPX Ydieresis uacute -92  
KPX Ydieresis ucircumflex -92  
KPX Ydieresis udieresis -92  
KPX Ydieresis ugrave -92  
KPX Ydieresis uhungarumlaut -92  
KPX Ydieresis umacron -92  
KPX Ydieresis uogonek -92  
KPX Ydieresis uring -92  
KPX a g -10  
KPX a gbreve -10  
KPX a gcommaaccent -10  
KPX aacute g -10

KPX aacute gbreve -10  
KPX aacute gcommaaccent -10  
KPX abreve g -10  
KPX abreve gbreve -10  
KPX abreve gcommaaccent -10  
KPX acircumflex g -10  
KPX acircumflex gbreve -10  
KPX acircumflex gcommaaccent -10  
KPX adieresis g -10  
KPX adieresis gbreve -10  
KPX adieresis gcommaaccent -10  
KPX agrave g -10  
KPX agrave gbreve -10  
KPX agrave gcommaaccent -10  
KPX amacron g -10  
KPX amacron gbreve -10  
KPX amacron gcommaaccent -10  
KPX aogonek g -10  
KPX aogonek gbreve -10  
KPX aogonek gcommaaccent -10  
KPX aring g -10  
KPX aring gbreve -10  
KPX aring gcommaaccent -10  
KPX atilde g -10  
KPX atilde gbreve -10  
KPX atilde gcommaaccent -10  
KPX b period -40  
KPX b u -20  
KPX b uacute -20  
KPX b ucircumflex -20  
KPX b udieresis -20  
KPX b ugrave -20  
KPX b uhungarumlaut -20  
KPX b umacron -20  
KPX b uogonek -20  
KPX b uring -20  
KPX c h -15  
KPX c k -20  
KPX c kcommaaccent -20  
KPX cacute h -15  
KPX cacute k -20  
KPX cacute kcommaaccent -20  
KPX ccaron h -15  
KPX ccaron k -20  
KPX ccaron kcommaaccent -20  
KPX ccedilla h -15  
KPX ccedilla k -20  
KPX ccedilla kcommaaccent -20

KPX comma quotedblright -140  
KPX comma quoteright -140  
KPX e comma -10  
KPX e g -40  
KPX e gbreve -40  
KPX e gcommaaccent -40  
KPX e period -15  
KPX e v -15  
KPX e w -15  
KPX e x -20  
KPX e y -30  
KPX e yacute -30  
KPX e ydieresis -30  
KPX eacute comma -10  
KPX eacute g -40  
KPX eacute gbreve -40  
KPX eacute gcommaaccent -40  
KPX eacute period -15  
KPX eacute v -15  
KPX eacute w -15  
KPX eacute x -20  
KPX eacute y -30  
KPX eacute yacute -30  
KPX eacute ydieresis -30  
KPX ecaron comma -10  
KPX ecaron g -40  
KPX ecaron gbreve -40  
KPX ecaron gcommaaccent -40  
KPX ecaron period -15  
KPX ecaron v -15  
KPX ecaron w -15  
KPX ecaron x -20  
KPX ecaron y -30  
KPX ecaron yacute -30  
KPX ecaron ydieresis -30  
KPX ecircumflex comma -10  
KPX ecircumflex g -40  
KPX ecircumflex gbreve -40  
KPX ecircumflex gcommaaccent -40  
KPX ecircumflex period -15  
KPX ecircumflex v -15  
KPX ecircumflex w -15  
KPX ecircumflex x -20  
KPX ecircumflex y -30  
KPX ecircumflex yacute -30  
KPX ecircumflex ydieresis -30  
KPX edieresis comma -10  
KPX edieresis g -40

KPX edieresis gbreve -40  
KPX edieresis gcommaaccent -40  
KPX edieresis period -15  
KPX edieresis v -15  
KPX edieresis w -15  
KPX edieresis x -20  
KPX edieresis y -30  
KPX edieresis yacute -30  
KPX edieresis ydieresis -30  
KPX edotaccent comma -10  
KPX edotaccent g -40  
KPX edotaccent gbreve -40  
KPX edotaccent gcommaaccent -40  
KPX edotaccent period -15  
KPX edotaccent v -15  
KPX edotaccent w -15  
KPX edotaccent x -20  
KPX edotaccent y -30  
KPX edotaccent yacute -30  
KPX edotaccent ydieresis -30  
KPX egrave comma -10  
KPX egrave g -40  
KPX egrave gbreve -40  
KPX egrave gcommaaccent -40  
KPX egrave period -15  
KPX egrave v -15  
KPX egrave w -15  
KPX egrave x -20  
KPX egrave y -30  
KPX egrave yacute -30  
KPX egrave ydieresis -30  
KPX emacron comma -10  
KPX emacron g -40  
KPX emacron gbreve -40  
KPX emacron gcommaaccent -40  
KPX emacron period -15  
KPX emacron v -15  
KPX emacron w -15  
KPX emacron x -20  
KPX emacron y -30  
KPX emacron yacute -30  
KPX emacron ydieresis -30  
KPX eogonek comma -10  
KPX eogonek g -40  
KPX eogonek gbreve -40  
KPX eogonek gcommaaccent -40  
KPX eogonek period -15  
KPX eogonek v -15

KPX eogonek w -15  
KPX eogonek x -20  
KPX eogonek y -30  
KPX eogonek yacute -30  
KPX eogonek ydieresis -30  
KPX f comma -10  
KPX f dotlessi -60  
KPX f f -18  
KPX f i -20  
KPX f iogonek -20  
KPX f period -15  
KPX f quoteright 92  
KPX g comma -10  
KPX g e -10  
KPX g eacute -10  
KPX g ecaron -10  
KPX g ecircumflex -10  
KPX g edieresis -10  
KPX g edotaccent -10  
KPX g egrave -10  
KPX g emacron -10  
KPX g eogonek -10  
KPX g g -10  
KPX g gbreve -10  
KPX g gcommaaccent -10  
KPX g period -15  
KPX gbreve comma -10  
KPX gbreve e -10  
KPX gbreve eacute -10  
KPX gbreve ecaron -10  
KPX gbreve ecircumflex -10  
KPX gbreve edieresis -10  
KPX gbreve edotaccent -10  
KPX gbreve egrave -10  
KPX gbreve emacron -10  
KPX gbreve eogonek -10  
KPX gbreve g -10  
KPX gbreve gbreve -10  
KPX gbreve gcommaaccent -10  
KPX gbreve period -15  
KPX gcommaaccent comma -10  
KPX gcommaaccent e -10  
KPX gcommaaccent eacute -10  
KPX gcommaaccent ecaron -10  
KPX gcommaaccent ecircumflex -10  
KPX gcommaaccent edieresis -10  
KPX gcommaaccent edotaccent -10  
KPX gcommaaccent egrave -10



KPX gcommaaccent emacron -10  
KPX gcommaaccent eogonek -10  
KPX gcommaaccent g -10  
KPX gcommaaccent gbreve -10  
KPX gcommaaccent gcommaaccent -10  
KPX gcommaaccent period -15  
KPX k e -10  
KPX k eacute -10  
KPX k ecaron -10  
KPX k ecircumflex -10  
KPX k edieresis -10  
KPX k edotaccent -10  
KPX k egrave -10  
KPX k emacron -10  
KPX k eogonek -10  
KPX k o -10  
KPX k oacute -10  
KPX k ocircumflex -10  
KPX k odieresis -10  
KPX k ograve -10  
KPX k ohungarumlaut -10  
KPX k omacron -10  
KPX k oslash -10  
KPX k otilde -10  
KPX k y -10  
KPX k yacute -10  
KPX k ydieresis -10  
KPX kcommaaccent e -10  
KPX kcommaaccent eacute -10  
KPX kcommaaccent ecaron -10  
KPX kcommaaccent ecircumflex -10  
KPX kcommaaccent edieresis -10  
KPX kcommaaccent edotaccent -10  
KPX kcommaaccent egrave -10  
KPX kcommaaccent emacron -10  
KPX kcommaaccent eogonek -10  
KPX kcommaaccent o -10  
KPX kcommaaccent oacute -10  
KPX kcommaaccent ocircumflex -10  
KPX kcommaaccent odieresis -10  
KPX kcommaaccent ograve -10  
KPX kcommaaccent ohungarumlaut -10  
KPX kcommaaccent omacron -10  
KPX kcommaaccent oslash -10  
KPX kcommaaccent otilde -10  
KPX kcommaaccent y -10  
KPX kcommaaccent yacute -10  
KPX kcommaaccent ydieresis -10

KPX n v -40  
KPX nacute v -40  
KPX ncaron v -40  
KPX ncommaaccent v -40  
KPX ntilde v -40  
KPX o g -10  
KPX o gbreve -10  
KPX o gcommaaccent -10  
KPX o v -10  
KPX oacute g -10  
KPX oacute gbreve -10  
KPX oacute gcommaaccent -10  
KPX oacute v -10  
KPX ocircumflex g -10  
KPX ocircumflex gbreve -10  
KPX ocircumflex gcommaaccent -10  
KPX ocircumflex v -10  
KPX odieresis g -10  
KPX odieresis gbreve -10  
KPX odieresis gcommaaccent -10  
KPX odieresis v -10  
KPX ograve g -10  
KPX ograve gbreve -10  
KPX ograve gcommaaccent -10  
KPX ograve v -10  
KPX ohungarumlaut g -10  
KPX ohungarumlaut gbreve -10  
KPX ohungarumlaut gcommaaccent -10  
KPX ohungarumlaut v -10  
KPX omacron g -10  
KPX omacron gbreve -10  
KPX omacron gcommaaccent -10  
KPX omacron v -10  
KPX oslash g -10  
KPX oslash gbreve -10  
KPX oslash gcommaaccent -10  
KPX oslash v -10  
KPX otilde g -10  
KPX otilde gbreve -10  
KPX otilde gcommaaccent -10  
KPX otilde v -10  
KPX period quotedblright -140  
KPX period quoteright -140  
KPX quoteleft quoteleft -111  
KPX quoteright d -25  
KPX quoteright dcroat -25  
KPX quoteright quoteright -111  
KPX quoteright r -25

KPX quoteright racute -25  
KPX quoteright rcaron -25  
KPX quoteright rcommaaccent -25  
KPX quoteright s -40  
KPX quoteright sacute -40  
KPX quoteright scaron -40  
KPX quoteright scedilla -40  
KPX quoteright scommaaccent -40  
KPX quoteright space -111  
KPX quoteright t -30  
KPX quoteright tcommaaccent -30  
KPX quoteright v -10  
KPX r a -15  
KPX r aacute -15  
KPX r abreve -15  
KPX r acircumflex -15  
KPX r adieresis -15  
KPX r agrave -15  
KPX r amacron -15  
KPX r aogonek -15  
KPX r aring -15  
KPX r atilde -15  
KPX r c -37  
KPX r cacute -37  
KPX r ccaron -37  
KPX r ccedilla -37  
KPX r comma -111  
KPX r d -37  
KPX r dcroat -37  
KPX r e -37  
KPX r eacute -37  
KPX r ecaron -37  
KPX r ecircumflex -37  
KPX r edieresis -37  
KPX r edotaccent -37  
KPX r egrave -37  
KPX r emacron -37  
KPX r eogonek -37  
KPX r g -37  
KPX r gbreve -37  
KPX r gcommaaccent -37  
KPX r hyphen -20  
KPX r o -45  
KPX r oacute -45  
KPX r ocircumflex -45  
KPX r odieresis -45  
KPX r ograve -45  
KPX r ohungarumlaut -45

KPX r omacron -45  
KPX r oslash -45  
KPX r otilde -45  
KPX r period -111  
KPX r q -37  
KPX r s -10  
KPX r sacute -10  
KPX r scaron -10  
KPX r scedilla -10  
KPX r scommaaccent -10  
KPX racute a -15  
KPX racute aacute -15  
KPX racute abreve -15  
KPX racute acircumflex -15  
KPX racute adieresis -15  
KPX racute agrave -15  
KPX racute amacron -15  
KPX racute aogonek -15  
KPX racute aring -15  
KPX racute atilde -15  
KPX racute c -37  
KPX racute cacute -37  
KPX racute ccaron -37  
KPX racute ccedilla -37  
KPX racute comma -111  
KPX racute d -37  
KPX racute dcroat -37  
KPX racute e -37  
KPX racute eacute -37  
KPX racute ecaron -37  
KPX racute ecircumflex -37  
KPX racute edieresis -37  
KPX racute edotaccent -37  
KPX racute egrave -37  
KPX racute emacron -37  
KPX racute eogonek -37  
KPX racute g -37  
KPX racute gbreve -37  
KPX racute gcommaaccent -37  
KPX racute hyphen -20  
KPX racute o -45  
KPX racute oacute -45  
KPX racute ocircumflex -45  
KPX racute odieresis -45  
KPX racute ograve -45  
KPX racute ohungarumlaut -45  
KPX racute omacron -45  
KPX racute oslash -45

KPX racute otilde -45  
KPX racute period -111  
KPX racute q -37  
KPX racute s -10  
KPX racute sacute -10  
KPX racute scaron -10  
KPX racute scedilla -10  
KPX racute scommaaccent -10  
KPX rcaron a -15  
KPX rcaron aacute -15  
KPX rcaron abreve -15  
KPX rcaron acircumflex -15  
KPX rcaron adieresis -15  
KPX rcaron agrave -15  
KPX rcaron amacron -15  
KPX rcaron aogonek -15  
KPX rcaron aring -15  
KPX rcaron atilde -15  
KPX rcaron c -37  
KPX rcaron cacute -37  
KPX rcaron ccaron -37  
KPX rcaron ccedilla -37  
KPX rcaron comma -111  
KPX rcaron d -37  
KPX rcaron dcroat -37  
KPX rcaron e -37  
KPX rcaron eacute -37  
KPX rcaron ecaron -37  
KPX rcaron ecircumflex -37  
KPX rcaron edieresis -37  
KPX rcaron edotaccent -37  
KPX rcaron egrave -37  
KPX rcaron emacron -37  
KPX rcaron eogonek -37  
KPX rcaron g -37  
KPX rcaron gbreve -37  
KPX rcaron gcommaaccent -37  
KPX rcaron hyphen -20  
KPX rcaron o -45  
KPX rcaron oacute -45  
KPX rcaron ocircumflex -45  
KPX rcaron odieresis -45  
KPX rcaron ograve -45  
KPX rcaron ohungarumlaut -45  
KPX rcaron omacron -45  
KPX rcaron oslash -45  
KPX rcaron otilde -45  
KPX rcaron period -111

KPX rcaron q -37  
KPX rcaron s -10  
KPX rcaron sacute -10  
KPX rcaron scaron -10  
KPX rcaron scedilla -10  
KPX rcaron scommaaccent -10  
KPX rcommaaccent a -15  
KPX rcommaaccent aacute -15  
KPX rcommaaccent abreve -15  
KPX rcommaaccent acircumflex -15  
KPX rcommaaccent adieresis -15  
KPX rcommaaccent agrave -15  
KPX rcommaaccent amacron -15  
KPX rcommaaccent aogonek -15  
KPX rcommaaccent aring -15  
KPX rcommaaccent atilde -15  
KPX rcommaaccent c -37  
KPX rcommaaccent cacute -37  
KPX rcommaaccent ccaron -37  
KPX rcommaaccent ccedilla -37  
KPX rcommaaccent comma -111  
KPX rcommaaccent d -37  
KPX rcommaaccent dcroat -37  
KPX rcommaaccent e -37  
KPX rcommaaccent eacute -37  
KPX rcommaaccent ecaron -37  
KPX rcommaaccent ecircumflex -37  
KPX rcommaaccent edieresis -37  
KPX rcommaaccent edotaccent -37  
KPX rcommaaccent egrave -37  
KPX rcommaaccent emacron -37  
KPX rcommaaccent eogonek -37  
KPX rcommaaccent g -37  
KPX rcommaaccent gbreve -37  
KPX rcommaaccent gcommaaccent -37  
KPX rcommaaccent hyphen -20  
KPX rcommaaccent o -45  
KPX rcommaaccent oacute -45  
KPX rcommaaccent ocircumflex -45  
KPX rcommaaccent odieresis -45  
KPX rcommaaccent ograve -45  
KPX rcommaaccent ohungarumlaut -45  
KPX rcommaaccent omacron -45  
KPX rcommaaccent oslash -45  
KPX rcommaaccent otilde -45  
KPX rcommaaccent period -111  
KPX rcommaaccent q -37  
KPX rcommaaccent s -10

KPX rcommaaccent sacute -10  
KPX rcommaaccent scaron -10  
KPX rcommaaccent scedilla -10  
KPX rcommaaccent scommaaccent -10  
KPX space A -18  
KPX space Aacute -18  
KPX space Abreve -18  
KPX space Acircumflex -18  
KPX space Adieresis -18  
KPX space Agrave -18  
KPX space Amacron -18  
KPX space Aogonek -18  
KPX space Aring -18  
KPX space Atilde -18  
KPX space T -18  
KPX space Tcaron -18  
KPX space Tcommaaccent -18  
KPX space V -35  
KPX space W -40  
KPX space Y -75  
KPX space Yacute -75  
KPX space Ydieresis -75  
KPX v comma -74  
KPX v period -74  
KPX w comma -74  
KPX w period -74  
KPX y comma -55  
KPX y period -55  
KPX yacute comma -55  
KPX yacute period -55  
KPX ydieresis comma -55  
KPX ydieresis period -55  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Tue Mar 20 13:14:55 1990  
Comment UniqueID 28425  
Comment VMusage 32721 39613  
FontName Times-BoldItalic  
FullName Times Bold Italic  
FamilyName Times  
Weight Bold  
ItalicAngle -15  
IsFixedPitch false  
FontBBox -200 -218 996 921  
UnderlinePosition -100

UnderlineThickness 50

Version 001.009

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Times is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 669

XHeight 462

Ascender 699

Descender -205

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 389 ; N exclam ; B 67 -13 370 684 ;

C 34 ; WX 555 ; N quotedbl ; B 136 398 536 685 ;

C 35 ; WX 500 ; N numbersign ; B -33 0 533 700 ;

C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;

C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;

C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;

C 39 ; WX 333 ; N quoteright ; B 98 369 302 685 ;

C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;

C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;

C 42 ; WX 500 ; N asterisk ; B 65 249 456 685 ;

C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;

C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;

C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;

C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;

C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;

C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;

C 49 ; WX 500 ; N one ; B 5 0 419 683 ;

C 50 ; WX 500 ; N two ; B -27 0 446 683 ;

C 51 ; WX 500 ; N three ; B -15 -13 450 683 ;

C 52 ; WX 500 ; N four ; B -15 0 503 683 ;

C 53 ; WX 500 ; N five ; B -11 -13 487 669 ;

C 54 ; WX 500 ; N six ; B 23 -15 509 679 ;

C 55 ; WX 500 ; N seven ; B 52 0 525 669 ;

C 56 ; WX 500 ; N eight ; B 3 -13 476 683 ;

C 57 ; WX 500 ; N nine ; B -12 -10 475 683 ;

C 58 ; WX 333 ; N colon ; B 23 -13 264 459 ;

C 59 ; WX 333 ; N semicolon ; B -25 -183 264 459 ;

C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;

C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;

C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;

C 63 ; WX 500 ; N question ; B 79 -13 470 684 ;

C 64 ; WX 832 ; N at ; B 63 -18 770 685 ;

C 65 ; WX 667 ; N A ; B -67 0 593 683 ;

C 66 ; WX 667 ; N B ; B -24 0 624 669 ;

C 67 ; WX 667 ; N C ; B 32 -18 677 685 ;

C 68 ; WX 722 ; N D ; B -46 0 685 669 ;

C 69 ; WX 667 ; N E ; B -27 0 653 669 ;



C 70 ; WX 667 ; N F ; B -13 0 660 669 ;  
C 71 ; WX 722 ; N G ; B 21 -18 706 685 ;  
C 72 ; WX 778 ; N H ; B -24 0 799 669 ;  
C 73 ; WX 389 ; N I ; B -32 0 406 669 ;  
C 74 ; WX 500 ; N J ; B -46 -99 524 669 ;  
C 75 ; WX 667 ; N K ; B -21 0 702 669 ;  
C 76 ; WX 611 ; N L ; B -22 0 590 669 ;  
C 77 ; WX 889 ; N M ; B -29 -12 917 669 ;  
C 78 ; WX 722 ; N N ; B -27 -15 748 669 ;  
C 79 ; WX 722 ; N O ; B 27 -18 691 685 ;  
C 80 ; WX 611 ; N P ; B -27 0 613 669 ;  
C 81 ; WX 722 ; N Q ; B 27 -208 691 685 ;  
C 82 ; WX 667 ; N R ; B -29 0 623 669 ;  
C 83 ; WX 556 ; N S ; B 2 -18 526 685 ;  
C 84 ; WX 611 ; N T ; B 50 0 650 669 ;  
C 85 ; WX 722 ; N U ; B 67 -18 744 669 ;  
C 86 ; WX 667 ; N V ; B 65 -18 715 669 ;  
C 87 ; WX 889 ; N W ; B 65 -18 940 669 ;  
C 88 ; WX 667 ; N X ; B -24 0 694 669 ;  
C 89 ; WX 611 ; N Y ; B 73 0 659 669 ;  
C 90 ; WX 611 ; N Z ; B -11 0 590 669 ;  
C 91 ; WX 333 ; N bracketleft ; B -37 -159 362 674 ;  
C 92 ; WX 278 ; N backslash ; B -1 -18 279 685 ;  
C 93 ; WX 333 ; N bracketright ; B -56 -157 343 674 ;  
C 94 ; WX 570 ; N asciicircum ; B 67 304 503 669 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 128 369 332 685 ;  
C 97 ; WX 500 ; N a ; B -21 -14 455 462 ;  
C 98 ; WX 500 ; N b ; B -14 -13 444 699 ;  
C 99 ; WX 444 ; N c ; B -5 -13 392 462 ;  
C 100 ; WX 500 ; N d ; B -21 -13 517 699 ;  
C 101 ; WX 444 ; N e ; B 5 -13 398 462 ;  
C 102 ; WX 333 ; N f ; B -169 -205 446 698 ; L i f i ; L l f l ;  
C 103 ; WX 500 ; N g ; B -52 -203 478 462 ;  
C 104 ; WX 556 ; N h ; B -13 -9 498 699 ;  
C 105 ; WX 278 ; N i ; B 2 -9 263 684 ;  
C 106 ; WX 278 ; N j ; B -189 -207 279 684 ;  
C 107 ; WX 500 ; N k ; B -23 -8 483 699 ;  
C 108 ; WX 278 ; N l ; B 2 -9 290 699 ;  
C 109 ; WX 778 ; N m ; B -14 -9 722 462 ;  
C 110 ; WX 556 ; N n ; B -6 -9 493 462 ;  
C 111 ; WX 500 ; N o ; B -3 -13 441 462 ;  
C 112 ; WX 500 ; N p ; B -120 -205 446 462 ;  
C 113 ; WX 500 ; N q ; B 1 -205 471 462 ;  
C 114 ; WX 389 ; N r ; B -21 0 389 462 ;  
C 115 ; WX 389 ; N s ; B -19 -13 333 462 ;  
C 116 ; WX 278 ; N t ; B -11 -9 281 594 ;  
C 117 ; WX 556 ; N u ; B 15 -9 492 462 ;

C 118 ; WX 444 ; N v ; B 16 -13 401 462 ;  
C 119 ; WX 667 ; N w ; B 16 -13 614 462 ;  
C 120 ; WX 500 ; N x ; B -46 -13 469 462 ;  
C 121 ; WX 444 ; N y ; B -94 -205 392 462 ;  
C 122 ; WX 389 ; N z ; B -43 -78 368 449 ;  
C 123 ; WX 348 ; N braceleft ; B 5 -187 436 686 ;  
C 124 ; WX 220 ; N bar ; B 66 -18 154 685 ;  
C 125 ; WX 348 ; N braceright ; B -129 -187 302 686 ;  
C 126 ; WX 570 ; N asciitilde ; B 54 173 516 333 ;  
C 161 ; WX 389 ; N exclamdown ; B 19 -205 322 492 ;  
C 162 ; WX 500 ; N cent ; B 42 -143 439 576 ;  
C 163 ; WX 500 ; N sterling ; B -32 -12 510 683 ;  
C 164 ; WX 167 ; N fraction ; B -169 -14 324 683 ;  
C 165 ; WX 500 ; N yen ; B 33 0 628 669 ;  
C 166 ; WX 500 ; N florin ; B -87 -156 537 707 ;  
C 167 ; WX 500 ; N section ; B 36 -143 459 685 ;  
C 168 ; WX 500 ; N currency ; B -26 34 526 586 ;  
C 169 ; WX 278 ; N quotesingle ; B 128 398 268 685 ;  
C 170 ; WX 500 ; N quotedblleft ; B 53 369 513 685 ;  
C 171 ; WX 500 ; N guillemotleft ; B 12 32 468 415 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 32 32 303 415 ;  
C 173 ; WX 333 ; N guilsinglright ; B 10 32 281 415 ;  
C 174 ; WX 556 ; N fi ; B -188 -205 514 703 ;  
C 175 ; WX 556 ; N fl ; B -186 -205 553 704 ;  
C 177 ; WX 500 ; N endash ; B -40 178 477 269 ;  
C 178 ; WX 500 ; N dagger ; B 91 -145 494 685 ;  
C 179 ; WX 500 ; N daggerdbl ; B 10 -139 493 685 ;  
C 180 ; WX 250 ; N periodcentered ; B 51 257 199 405 ;  
C 182 ; WX 500 ; N paragraph ; B -57 -193 562 669 ;  
C 183 ; WX 350 ; N bullet ; B 0 175 350 525 ;  
C 184 ; WX 333 ; N quotesinglbase ; B -5 -182 199 134 ;  
C 185 ; WX 500 ; N quotedblbase ; B -57 -182 403 134 ;  
C 186 ; WX 500 ; N quotedblright ; B 53 369 513 685 ;  
C 187 ; WX 500 ; N guillemotright ; B 12 32 468 415 ;  
C 188 ; WX 1000 ; N ellipsis ; B 40 -13 852 135 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -29 996 706 ;  
C 191 ; WX 500 ; N questiondown ; B 30 -205 421 492 ;  
C 193 ; WX 333 ; N grave ; B 85 516 297 697 ;  
C 194 ; WX 333 ; N acute ; B 139 516 379 697 ;  
C 195 ; WX 333 ; N circumflex ; B 40 516 367 690 ;  
C 196 ; WX 333 ; N tilde ; B 48 536 407 655 ;  
C 197 ; WX 333 ; N macron ; B 51 553 393 623 ;  
C 198 ; WX 333 ; N breve ; B 71 516 387 678 ;  
C 199 ; WX 333 ; N dotaccent ; B 163 525 293 655 ;  
C 200 ; WX 333 ; N dieresis ; B 55 525 397 655 ;  
C 202 ; WX 333 ; N ring ; B 127 516 340 729 ;  
C 203 ; WX 333 ; N cedilla ; B -80 -218 156 5 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 69 516 498 697 ;

C 206 ; WX 333 ; N ogonek ; B -40 -173 189 44 ;  
C 207 ; WX 333 ; N caron ; B 79 516 411 690 ;  
C 208 ; WX 1000 ; N emdash ; B -40 178 977 269 ;  
C 225 ; WX 944 ; N AE ; B -64 0 918 669 ;  
C 227 ; WX 266 ; N ordfeminine ; B 16 399 330 685 ;  
C 232 ; WX 611 ; N Lslash ; B -22 0 590 669 ;  
C 233 ; WX 722 ; N Oslash ; B 27 -125 691 764 ;  
C 234 ; WX 944 ; N OE ; B 23 -8 946 677 ;  
C 235 ; WX 300 ; N ordmasculine ; B 56 400 347 685 ;  
C 241 ; WX 722 ; N ae ; B -5 -13 673 462 ;  
C 245 ; WX 278 ; N dotlessi ; B 2 -9 238 462 ;  
C 248 ; WX 278 ; N lslash ; B -13 -9 301 699 ;  
C 249 ; WX 500 ; N oslash ; B -3 -119 441 560 ;  
C 250 ; WX 722 ; N oe ; B 6 -13 674 462 ;  
C 251 ; WX 500 ; N germandbls ; B -200 -200 473 705 ;  
C -1 ; WX 611 ; N Zcaron ; B -11 0 590 897 ;  
C -1 ; WX 444 ; N ccedilla ; B -24 -218 392 462 ;  
C -1 ; WX 444 ; N ydieresis ; B -94 -205 438 655 ;  
C -1 ; WX 500 ; N atilde ; B -21 -14 491 655 ;  
C -1 ; WX 278 ; N icircumflex ; B -2 -9 325 690 ;  
C -1 ; WX 300 ; N threesuperior ; B 17 265 321 683 ;  
C -1 ; WX 444 ; N ecircumflex ; B 5 -13 423 690 ;  
C -1 ; WX 500 ; N thorn ; B -120 -205 446 699 ;  
C -1 ; WX 444 ; N egrave ; B 5 -13 398 697 ;  
C -1 ; WX 300 ; N twosuperior ; B 2 274 313 683 ;  
C -1 ; WX 444 ; N eacute ; B 5 -13 435 697 ;  
C -1 ; WX 500 ; N otilde ; B -3 -13 491 655 ;  
C -1 ; WX 667 ; N Aacute ; B -67 0 593 904 ;  
C -1 ; WX 500 ; N ocircumflex ; B -3 -13 451 690 ;  
C -1 ; WX 444 ; N yacute ; B -94 -205 435 697 ;  
C -1 ; WX 556 ; N udieresis ; B 15 -9 494 655 ;  
C -1 ; WX 750 ; N threequarters ; B 7 -14 726 683 ;  
C -1 ; WX 500 ; N acircumflex ; B -21 -14 455 690 ;  
C -1 ; WX 722 ; N Eth ; B -31 0 700 669 ;  
C -1 ; WX 444 ; N edieresis ; B 5 -13 443 655 ;  
C -1 ; WX 556 ; N ugrave ; B 15 -9 492 697 ;  
C -1 ; WX 1000 ; N trademark ; B 32 263 968 669 ;  
C -1 ; WX 500 ; N ograve ; B -3 -13 441 697 ;  
C -1 ; WX 389 ; N scaron ; B -19 -13 439 690 ;  
C -1 ; WX 389 ; N Idieresis ; B -32 0 445 862 ;  
C -1 ; WX 556 ; N uacute ; B 15 -9 492 697 ;  
C -1 ; WX 500 ; N agrave ; B -21 -14 455 697 ;  
C -1 ; WX 556 ; N ntilde ; B -6 -9 504 655 ;  
C -1 ; WX 500 ; N aring ; B -21 -14 455 729 ;  
C -1 ; WX 389 ; N zcaron ; B -43 -78 424 690 ;  
C -1 ; WX 389 ; N Icircumflex ; B -32 0 420 897 ;  
C -1 ; WX 722 ; N Ntilde ; B -27 -15 748 862 ;  
C -1 ; WX 556 ; N ucircumflex ; B 15 -9 492 690 ;

C -1 ; WX 667 ; N Ecircumflex ; B -27 0 653 897 ;  
C -1 ; WX 389 ; N Iacute ; B -32 0 412 904 ;  
C -1 ; WX 667 ; N Ccedilla ; B 32 -218 677 685 ;  
C -1 ; WX 722 ; N Odieresis ; B 27 -18 691 862 ;  
C -1 ; WX 556 ; N Scaron ; B 2 -18 526 897 ;  
C -1 ; WX 667 ; N Edieresis ; B -27 0 653 862 ;  
C -1 ; WX 389 ; N Igrave ; B -32 0 406 904 ;  
C -1 ; WX 500 ; N adieresis ; B -21 -14 471 655 ;  
C -1 ; WX 722 ; N Ograve ; B 27 -18 691 904 ;  
C -1 ; WX 667 ; N Egrave ; B -27 0 653 904 ;  
C -1 ; WX 611 ; N Ydieresis ; B 73 0 659 862 ;  
C -1 ; WX 747 ; N registered ; B 30 -18 718 685 ;  
C -1 ; WX 722 ; N Otilde ; B 27 -18 691 862 ;  
C -1 ; WX 750 ; N onequarter ; B 7 -14 721 683 ;  
C -1 ; WX 722 ; N Ugrave ; B 67 -18 744 904 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 67 -18 744 897 ;  
C -1 ; WX 611 ; N Thorn ; B -27 0 573 669 ;  
C -1 ; WX 570 ; N divide ; B 33 -29 537 535 ;  
C -1 ; WX 667 ; N Atilde ; B -67 0 593 862 ;  
C -1 ; WX 722 ; N Uacute ; B 67 -18 744 904 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 27 -18 691 897 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 108 555 399 ;  
C -1 ; WX 667 ; N Aring ; B -67 0 593 921 ;  
C -1 ; WX 278 ; N idieresis ; B 2 -9 360 655 ;  
C -1 ; WX 278 ; N iacute ; B 2 -9 352 697 ;  
C -1 ; WX 500 ; N aacute ; B -21 -14 463 697 ;  
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;  
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;  
C -1 ; WX 722 ; N Udieresis ; B 67 -18 744 862 ;  
C -1 ; WX 606 ; N minus ; B 51 209 555 297 ;  
C -1 ; WX 300 ; N onesuperior ; B 30 274 301 683 ;  
C -1 ; WX 667 ; N Eacute ; B -27 0 653 904 ;  
C -1 ; WX 667 ; N Acircumflex ; B -67 0 593 897 ;  
C -1 ; WX 747 ; N copyright ; B 30 -18 718 685 ;  
C -1 ; WX 667 ; N Agrave ; B -67 0 593 904 ;  
C -1 ; WX 500 ; N odieresis ; B -3 -13 466 655 ;  
C -1 ; WX 500 ; N oacute ; B -3 -13 463 697 ;  
C -1 ; WX 400 ; N degree ; B 83 397 369 683 ;  
C -1 ; WX 278 ; N igrave ; B 2 -9 260 697 ;  
C -1 ; WX 576 ; N mu ; B -60 -207 516 449 ;  
C -1 ; WX 722 ; N Oacute ; B 27 -18 691 904 ;  
C -1 ; WX 500 ; N eth ; B -3 -13 454 699 ;  
C -1 ; WX 667 ; N Adieresis ; B -67 0 593 862 ;  
C -1 ; WX 611 ; N Yacute ; B 73 0 659 904 ;  
C -1 ; WX 220 ; N brokenbar ; B 66 -18 154 685 ;  
C -1 ; WX 750 ; N onehalf ; B -9 -14 723 683 ;  
EndCharMetrics  
StartKernData

StartKernPairs 283

KPX A y -74  
KPX A w -74  
KPX A v -74  
KPX A u -30  
KPX A quoteright -74  
KPX A quotedblright 0  
KPX A p 0  
KPX A Y -70  
KPX A W -100  
KPX A V -95  
KPX A U -50  
KPX A T -55  
KPX A Q -55  
KPX A O -50  
KPX A G -60  
KPX A C -65

KPX B period 0  
KPX B comma 0  
KPX B U -10  
KPX B A -25

KPX D period 0  
KPX D comma 0  
KPX D Y -50  
KPX D W -40  
KPX D V -50  
KPX D A -25

KPX F r -50  
KPX F period -129  
KPX F o -70  
KPX F i -40  
KPX F e -100  
KPX F comma -129  
KPX F a -95  
KPX F A -100

KPX G period 0  
KPX G comma 0

KPX J u -40  
KPX J period -10  
KPX J o -40  
KPX J e -40  
KPX J comma -10

KPX J a -40  
KPX J A -25

KPX K y -20  
KPX K u -20  
KPX K o -25  
KPX K e -25  
KPX K O -30

KPX L y -37  
KPX L quoteright -55  
KPX L quotedblright 0  
KPX L Y -37  
KPX L W -37  
KPX L V -37  
KPX L T -18

KPX N period 0  
KPX N comma 0  
KPX N A -30

KPX O period 0  
KPX O comma 0  
KPX O Y -50  
KPX O X -40  
KPX O W -50  
KPX O V -50  
KPX O T -40  
KPX O A -40

KPX P period -129  
KPX P o -55  
KPX P e -50  
KPX P comma -129  
KPX P a -40  
KPX P A -85

KPX Q period 0  
KPX Q comma 0  
KPX Q U -10

KPX R Y -18  
KPX R W -18  
KPX R V -18  
KPX R U -40  
KPX R T -30  
KPX R O -40

KPX S period 0  
KPX S comma 0

KPX T y -37  
KPX T w -37  
KPX T u -37  
KPX T semicolon -74  
KPX T r -37  
KPX T period -92  
KPX T o -95  
KPX T i -37  
KPX T hyphen -92  
KPX T h 0  
KPX T e -92  
KPX T comma -92  
KPX T colon -74  
KPX T a -92  
KPX T O -18  
KPX T A -55

KPX U period 0  
KPX U comma 0  
KPX U A -45

KPX V u -55  
KPX V semicolon -74  
KPX V period -129  
KPX V o -111  
KPX V i -55  
KPX V hyphen -70  
KPX V e -111  
KPX V comma -129  
KPX V colon -74  
KPX V a -111  
KPX V O -30  
KPX V G -10  
KPX V A -85

KPX W y -55  
KPX W u -55  
KPX W semicolon -55  
KPX W period -74  
KPX W o -80  
KPX W i -37  
KPX W hyphen -50  
KPX W h 0  
KPX W e -90  
KPX W comma -74

KPX W colon -55  
KPX W a -85  
KPX W O -15  
KPX W A -74

KPX Y u -92  
KPX Y semicolon -92  
KPX Y period -74  
KPX Y o -111  
KPX Y i -55  
KPX Y hyphen -92  
KPX Y e -111  
KPX Y comma -92  
KPX Y colon -92  
KPX Y a -92  
KPX Y O -25  
KPX Y A -74

KPX a y 0  
KPX a w 0  
KPX a v 0  
KPX a t 0  
KPX a p 0  
KPX a g 0  
KPX a b 0

KPX b y 0  
KPX b v 0  
KPX b u -20  
KPX b period -40  
KPX b l 0  
KPX b comma 0  
KPX b b -10

KPX c y 0  
KPX c period 0  
KPX c l 0  
KPX c k -10  
KPX c h -10  
KPX c comma 0

KPX colon space 0

KPX comma space 0  
KPX comma quoteright -95  
KPX comma quotedblright -95

KPX d y 0



KPX d w 0  
KPX d v 0  
KPX d period 0  
KPX d d 0  
KPX d comma 0

KPX e y 0  
KPX e x 0  
KPX e w 0  
KPX e v 0  
KPX e period 0  
KPX e p 0  
KPX e g 0  
KPX e comma 0  
KPX e b -10

KPX f quoteright 55  
KPX f quotedblright 0  
KPX f period -10  
KPX f o -10  
KPX f l 0  
KPX f i 0  
KPX f f -18  
KPX f e -10  
KPX f dotlessi -30  
KPX f comma -10  
KPX f a 0

KPX g y 0  
KPX g r 0  
KPX g period 0  
KPX g o 0  
KPX g i 0  
KPX g g 0  
KPX g e 0  
KPX g comma 0  
KPX g a 0

KPX h y 0

KPX i v 0

KPX k y 0  
KPX k o -10  
KPX k e -30

KPX l y 0  
KPX l w 0

KPX m y 0

KPX m u 0

KPX n y 0

KPX n v -40

KPX n u 0

KPX o y -10

KPX o x -10

KPX o w -25

KPX o v -15

KPX o g 0

KPX p y 0

KPX period quoteright -95

KPX period quotedblright -95

KPX quotedblleft quoteleft 0

KPX quotedblleft A 0

KPX quotedblright space 0

KPX quoteleft quoteleft -74

KPX quoteleft A 0

KPX quoteright v -15

KPX quoteright t -37

KPX quoteright space -74

KPX quoteright s -74

KPX quoteright r -15

KPX quoteright quoteright -74

KPX quoteright quotedblright 0

KPX quoteright l 0

KPX quoteright d -15

KPX r y 0

KPX r v 0

KPX r u 0

KPX r t 0

KPX r s 0

KPX r r 0

KPX r q 0

KPX r period -65

KPX r p 0

KPX r o 0

KPX r n 0

KPX r m 0  
KPX r l 0  
KPX r k 0  
KPX r i 0  
KPX r hyphen 0  
KPX r g 0  
KPX r e 0  
KPX r d 0  
KPX r comma -65  
KPX r c 0  
KPX r a 0

KPX s w 0

KPX space quoteleft 0  
KPX space quotedbllleft 0  
KPX space Y -70  
KPX space W -70  
KPX space V -70  
KPX space T 0  
KPX space A -37

KPX v period -37  
KPX v o -15  
KPX v e -15  
KPX v comma -37  
KPX v a 0

KPX w period -37  
KPX w o -15  
KPX w h 0  
KPX w e -10  
KPX w comma -37  
KPX w a -10

KPX x e -10

KPX y period -37  
KPX y o 0  
KPX y e 0  
KPX y comma -37  
KPX y a 0

KPX z o 0  
KPX z e 0  
EndKernPairs  
EndKernData  
StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 172 207 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 187 207 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 167 207 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 172 207 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 157 192 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 207 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 172 207 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 187 207 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 187 207 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 172 207 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 33 207 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 53 207 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 48 207 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 33 207 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 210 207 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 200 207 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 230 207 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 215 207 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 200 207 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 207 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 207 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 210 207 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 230 207 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 230 207 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 200 207 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 154 207 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 169 207 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 207 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 84 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 74 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 74 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 84 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 46 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 46 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -42 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -37 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -37 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 97 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 84 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 69 0 ;

CC ograve 2 ; PCC o 0 0 ; PCC grave 74 0 ;  
 CC otilde 2 ; PCC o 0 0 ; PCC tilde 84 0 ;  
 CC scaron 2 ; PCC s 0 0 ; PCC caron 28 0 ;  
 CC uacute 2 ; PCC u 0 0 ; PCC acute 112 0 ;  
 CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 112 0 ;  
 CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 97 0 ;  
 CC ugrave 2 ; PCC u 0 0 ; PCC grave 102 0 ;  
 CC yacute 2 ; PCC y 0 0 ; PCC acute 56 0 ;  
 CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 41 0 ;  
 CC zcaron 2 ; PCC z 0 0 ; PCC caron 13 0 ;  
 EndComposites  
 EndFontMetrics  
 StartFontMetrics 2.0  
 Comment Copyright (c) 1985, 1987, 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
 Comment Creation Date: Tue May 28 16:31:51 1991  
 Comment UniqueID 35025  
 Comment VMusage 30420 37312  
 FontName NewCenturySchlbk-Roman  
 FullName New Century Schoolbook Roman  
 FamilyName New Century Schoolbook  
 Weight Roman  
 ItalicAngle 0  
 IsFixedPitch false  
 FontBBox -195 -250 1000 965  
 UnderlinePosition -100  
 UnderlineThickness 50  
 Version 001.007  
 Notice Copyright (c) 1985, 1987, 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
 EncodingScheme AdobeStandardEncoding  
 CapHeight 722  
 XHeight 464  
 Ascender 737  
 Descender -205  
 StartCharMetrics 228  
 C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
 C 33 ; WX 296 ; N exclam ; B 86 -15 210 737 ;  
 C 34 ; WX 389 ; N quotedbl ; B 61 443 328 737 ;  
 C 35 ; WX 556 ; N numbersign ; B 28 0 528 690 ;  
 C 36 ; WX 556 ; N dollar ; B 45 -138 511 813 ;  
 C 37 ; WX 833 ; N percent ; B 43 -15 790 705 ;  
 C 38 ; WX 815 ; N ampersand ; B 51 -15 775 737 ;  
 C 39 ; WX 204 ; N quoteright ; B 25 443 179 737 ;  
 C 40 ; WX 333 ; N parenleft ; B 40 -117 279 745 ;  
 C 41 ; WX 333 ; N parenright ; B 54 -117 293 745 ;  
 C 42 ; WX 500 ; N asterisk ; B 57 306 443 737 ;  
 C 43 ; WX 606 ; N plus ; B 50 0 556 506 ;  
 C 44 ; WX 278 ; N comma ; B 62 -185 216 109 ;  
 C 45 ; WX 333 ; N hyphen ; B 42 199 291 277 ;

C 46 ; WX 278 ; N period ; B 77 -15 201 109 ;  
C 47 ; WX 278 ; N slash ; B -32 -15 310 737 ;  
C 48 ; WX 556 ; N zero ; B 42 -15 514 705 ;  
C 49 ; WX 556 ; N one ; B 100 0 496 705 ;  
C 50 ; WX 556 ; N two ; B 35 0 505 705 ;  
C 51 ; WX 556 ; N three ; B 42 -15 498 705 ;  
C 52 ; WX 556 ; N four ; B 28 0 528 705 ;  
C 53 ; WX 556 ; N five ; B 46 -15 502 705 ;  
C 54 ; WX 556 ; N six ; B 41 -15 515 705 ;  
C 55 ; WX 556 ; N seven ; B 59 -15 508 705 ;  
C 56 ; WX 556 ; N eight ; B 42 -15 514 705 ;  
C 57 ; WX 556 ; N nine ; B 41 -15 515 705 ;  
C 58 ; WX 278 ; N colon ; B 77 -15 201 474 ;  
C 59 ; WX 278 ; N semicolon ; B 62 -185 216 474 ;  
C 60 ; WX 606 ; N less ; B 50 -8 556 514 ;  
C 61 ; WX 606 ; N equal ; B 50 117 556 389 ;  
C 62 ; WX 606 ; N greater ; B 50 -8 556 514 ;  
C 63 ; WX 444 ; N question ; B 29 -15 415 737 ;  
C 64 ; WX 737 ; N at ; B -8 -15 744 737 ;  
C 65 ; WX 722 ; N A ; B -8 0 730 737 ;  
C 66 ; WX 722 ; N B ; B 29 0 669 722 ;  
C 67 ; WX 722 ; N C ; B 45 -15 668 737 ;  
C 68 ; WX 778 ; N D ; B 29 0 733 722 ;  
C 69 ; WX 722 ; N E ; B 29 0 663 722 ;  
C 70 ; WX 667 ; N F ; B 29 0 638 722 ;  
C 71 ; WX 778 ; N G ; B 45 -15 775 737 ;  
C 72 ; WX 833 ; N H ; B 29 0 804 722 ;  
C 73 ; WX 407 ; N I ; B 38 0 369 722 ;  
C 74 ; WX 556 ; N J ; B 5 -15 540 722 ;  
C 75 ; WX 778 ; N K ; B 29 0 803 722 ;  
C 76 ; WX 667 ; N L ; B 29 0 644 722 ;  
C 77 ; WX 944 ; N M ; B 29 0 915 722 ;  
C 78 ; WX 815 ; N N ; B 24 -15 791 722 ;  
C 79 ; WX 778 ; N O ; B 45 -15 733 737 ;  
C 80 ; WX 667 ; N P ; B 29 0 650 722 ;  
C 81 ; WX 778 ; N Q ; B 45 -190 748 737 ;  
C 82 ; WX 722 ; N R ; B 29 -15 713 722 ;  
C 83 ; WX 630 ; N S ; B 47 -15 583 737 ;  
C 84 ; WX 667 ; N T ; B 19 0 648 722 ;  
C 85 ; WX 815 ; N U ; B 16 -15 799 722 ;  
C 86 ; WX 722 ; N V ; B -8 -10 730 722 ;  
C 87 ; WX 981 ; N W ; B 5 -10 976 722 ;  
C 88 ; WX 704 ; N X ; B -8 0 712 722 ;  
C 89 ; WX 704 ; N Y ; B -11 0 715 722 ;  
C 90 ; WX 611 ; N Z ; B 24 0 576 722 ;  
C 91 ; WX 333 ; N bracketleft ; B 126 -109 315 737 ;  
C 92 ; WX 606 ; N backslash ; B 132 -15 474 737 ;  
C 93 ; WX 333 ; N bracketright ; B 18 -109 207 737 ;

C 94 ; WX 606 ; N asciicircum ; B 89 325 517 690 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 204 ; N quoteleft ; B 25 443 179 737 ;  
C 97 ; WX 556 ; N a ; B 44 -15 542 479 ;  
C 98 ; WX 556 ; N b ; B 10 -15 522 737 ;  
C 99 ; WX 444 ; N c ; B 34 -15 426 479 ;  
C 100 ; WX 574 ; N d ; B 34 -15 552 737 ;  
C 101 ; WX 500 ; N e ; B 34 -15 466 479 ;  
C 102 ; WX 333 ; N f ; B 18 0 437 737 ; L i fi ; L l fl ;  
C 103 ; WX 537 ; N g ; B 23 -205 542 494 ;  
C 104 ; WX 611 ; N h ; B 7 0 592 737 ;  
C 105 ; WX 315 ; N i ; B 18 0 286 722 ;  
C 106 ; WX 296 ; N j ; B -86 -205 216 722 ;  
C 107 ; WX 593 ; N k ; B 10 0 589 737 ;  
C 108 ; WX 315 ; N l ; B 18 0 286 737 ;  
C 109 ; WX 889 ; N m ; B 26 0 863 479 ;  
C 110 ; WX 611 ; N n ; B 22 0 589 479 ;  
C 111 ; WX 500 ; N o ; B 34 -15 466 479 ;  
C 112 ; WX 574 ; N p ; B 22 -205 540 479 ;  
C 113 ; WX 556 ; N q ; B 34 -205 552 479 ;  
C 114 ; WX 444 ; N r ; B 18 0 434 479 ;  
C 115 ; WX 463 ; N s ; B 46 -15 417 479 ;  
C 116 ; WX 389 ; N t ; B 18 -15 371 666 ;  
C 117 ; WX 611 ; N u ; B 22 -15 589 464 ;  
C 118 ; WX 537 ; N v ; B -6 -10 515 464 ;  
C 119 ; WX 778 ; N w ; B 1 -10 749 464 ;  
C 120 ; WX 537 ; N x ; B 8 0 529 464 ;  
C 121 ; WX 537 ; N y ; B 4 -205 533 464 ;  
C 122 ; WX 481 ; N z ; B 42 0 439 464 ;  
C 123 ; WX 333 ; N braceleft ; B 54 -109 279 737 ;  
C 124 ; WX 606 ; N bar ; B 267 -250 339 750 ;  
C 125 ; WX 333 ; N braceright ; B 54 -109 279 737 ;  
C 126 ; WX 606 ; N asciitilde ; B 72 184 534 322 ;  
C 161 ; WX 296 ; N exclamdown ; B 86 -205 210 547 ;  
C 162 ; WX 556 ; N cent ; B 74 -141 482 584 ;  
C 163 ; WX 556 ; N sterling ; B 18 -15 538 705 ;  
C 164 ; WX 167 ; N fraction ; B -195 -15 362 705 ;  
C 165 ; WX 556 ; N yen ; B -1 0 557 690 ;  
C 166 ; WX 556 ; N florin ; B 0 -205 538 737 ;  
C 167 ; WX 500 ; N section ; B 55 -147 445 737 ;  
C 168 ; WX 556 ; N currency ; B 26 93 530 597 ;  
C 169 ; WX 204 ; N quotesingle ; B 59 443 145 737 ;  
C 170 ; WX 389 ; N quotedblleft ; B 25 443 364 737 ;  
C 171 ; WX 426 ; N guillemotleft ; B 39 78 387 398 ;  
C 172 ; WX 259 ; N guilsinglleft ; B 39 78 220 398 ;  
C 173 ; WX 259 ; N guilsinglright ; B 39 78 220 398 ;  
C 174 ; WX 611 ; N fi ; B 18 0 582 737 ;  
C 175 ; WX 611 ; N fl ; B 18 0 582 737 ;

C 177 ; WX 556 ; N endash ; B 0 208 556 268 ;  
C 178 ; WX 500 ; N dagger ; B 42 -147 458 737 ;  
C 179 ; WX 500 ; N daggerdbl ; B 42 -149 458 737 ;  
C 180 ; WX 278 ; N periodcentered ; B 71 238 207 374 ;  
C 182 ; WX 606 ; N paragraph ; B 60 -132 546 722 ;  
C 183 ; WX 606 ; N bullet ; B 122 180 484 542 ;  
C 184 ; WX 204 ; N quotesinglbase ; B 25 -185 179 109 ;  
C 185 ; WX 389 ; N quotedblbase ; B 25 -185 364 109 ;  
C 186 ; WX 389 ; N quotedblright ; B 25 443 364 737 ;  
C 187 ; WX 426 ; N guillemotright ; B 39 78 387 398 ;  
C 188 ; WX 1000 ; N ellipsis ; B 105 -15 895 109 ;  
C 189 ; WX 1000 ; N perthousand ; B 6 -15 994 705 ;  
C 191 ; WX 444 ; N questiondown ; B 29 -205 415 547 ;  
C 193 ; WX 333 ; N grave ; B 17 528 242 699 ;  
C 194 ; WX 333 ; N acute ; B 91 528 316 699 ;  
C 195 ; WX 333 ; N circumflex ; B 10 528 323 695 ;  
C 196 ; WX 333 ; N tilde ; B 1 553 332 655 ;  
C 197 ; WX 333 ; N macron ; B 10 568 323 623 ;  
C 198 ; WX 333 ; N breve ; B 25 528 308 685 ;  
C 199 ; WX 333 ; N dotaccent ; B 116 543 218 645 ;  
C 200 ; WX 333 ; N dieresis ; B 16 543 317 645 ;  
C 202 ; WX 333 ; N ring ; B 66 522 266 722 ;  
C 203 ; WX 333 ; N cedilla ; B 29 -215 237 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -9 528 416 699 ;  
C 206 ; WX 333 ; N ogonek ; B 68 -215 254 0 ;  
C 207 ; WX 333 ; N caron ; B 10 528 323 695 ;  
C 208 ; WX 1000 ; N emdash ; B 0 208 1000 268 ;  
C 225 ; WX 1000 ; N AE ; B 0 0 962 722 ;  
C 227 ; WX 334 ; N ordfeminine ; B -4 407 338 705 ;  
C 232 ; WX 667 ; N Lslash ; B 29 0 644 722 ;  
C 233 ; WX 778 ; N Oslash ; B 45 -56 733 778 ;  
C 234 ; WX 1000 ; N OE ; B 21 0 979 722 ;  
C 235 ; WX 300 ; N ordmasculine ; B 4 407 296 705 ;  
C 241 ; WX 796 ; N ae ; B 34 -15 762 479 ;  
C 245 ; WX 315 ; N dotlessi ; B 18 0 286 464 ;  
C 248 ; WX 315 ; N lslash ; B 18 0 286 737 ;  
C 249 ; WX 500 ; N oslash ; B 34 -97 466 561 ;  
C 250 ; WX 833 ; N oe ; B 34 -15 799 479 ;  
C 251 ; WX 574 ; N germandbls ; B 30 -15 537 737 ;  
C -1 ; WX 500 ; N ecircumflex ; B 34 -15 466 695 ;  
C -1 ; WX 500 ; N edieresis ; B 34 -15 466 645 ;  
C -1 ; WX 556 ; N aacute ; B 44 -15 542 699 ;  
C -1 ; WX 737 ; N registered ; B -8 -15 744 737 ;  
C -1 ; WX 315 ; N icircumflex ; B 1 0 314 695 ;  
C -1 ; WX 611 ; N udieresis ; B 22 -15 589 645 ;  
C -1 ; WX 500 ; N ograve ; B 34 -15 466 699 ;  
C -1 ; WX 611 ; N uacute ; B 22 -15 589 699 ;  
C -1 ; WX 611 ; N ucircumflex ; B 22 -15 589 695 ;



C -1 ; WX 722 ; N Aacute ; B -8 0 730 937 ;  
C -1 ; WX 315 ; N igrave ; B 8 0 286 699 ;  
C -1 ; WX 407 ; N Icircumflex ; B 38 0 369 933 ;  
C -1 ; WX 444 ; N ccedilla ; B 34 -215 426 479 ;  
C -1 ; WX 556 ; N adieresis ; B 44 -15 542 645 ;  
C -1 ; WX 722 ; N Ecircumflex ; B 29 0 663 933 ;  
C -1 ; WX 463 ; N scaron ; B 46 -15 417 695 ;  
C -1 ; WX 574 ; N thorn ; B 22 -205 540 737 ;  
C -1 ; WX 1000 ; N trademark ; B 32 318 968 722 ;  
C -1 ; WX 500 ; N egrave ; B 34 -15 466 699 ;  
C -1 ; WX 333 ; N threesuperior ; B 18 273 315 705 ;  
C -1 ; WX 481 ; N zcaron ; B 42 0 439 695 ;  
C -1 ; WX 556 ; N tilde ; B 44 -15 542 655 ;  
C -1 ; WX 556 ; N aring ; B 44 -15 542 732 ;  
C -1 ; WX 500 ; N ocircumflex ; B 34 -15 466 695 ;  
C -1 ; WX 722 ; N Edieresis ; B 29 0 663 883 ;  
C -1 ; WX 834 ; N threequarters ; B 28 -15 795 705 ;  
C -1 ; WX 537 ; N ydieresis ; B 4 -205 533 645 ;  
C -1 ; WX 537 ; N yacute ; B 4 -205 533 699 ;  
C -1 ; WX 315 ; N iacute ; B 18 0 307 699 ;  
C -1 ; WX 722 ; N Acircumflex ; B -8 0 730 933 ;  
C -1 ; WX 815 ; N Uacute ; B 16 -15 799 937 ;  
C -1 ; WX 500 ; N eacute ; B 34 -15 466 699 ;  
C -1 ; WX 778 ; N Ograve ; B 45 -15 733 937 ;  
C -1 ; WX 556 ; N agrave ; B 44 -15 542 699 ;  
C -1 ; WX 815 ; N Udieresis ; B 16 -15 799 883 ;  
C -1 ; WX 556 ; N acircumflex ; B 44 -15 542 695 ;  
C -1 ; WX 407 ; N Igrave ; B 38 0 369 937 ;  
C -1 ; WX 333 ; N twosuperior ; B 14 282 319 705 ;  
C -1 ; WX 815 ; N Ugrave ; B 16 -15 799 937 ;  
C -1 ; WX 834 ; N onequarter ; B 39 -15 795 705 ;  
C -1 ; WX 815 ; N Ucircumflex ; B 16 -15 799 933 ;  
C -1 ; WX 630 ; N Scaron ; B 47 -15 583 933 ;  
C -1 ; WX 407 ; N Idieresis ; B 38 0 369 883 ;  
C -1 ; WX 315 ; N idieresis ; B 7 0 308 645 ;  
C -1 ; WX 722 ; N Egrave ; B 29 0 663 937 ;  
C -1 ; WX 778 ; N Oacute ; B 45 -15 733 937 ;  
C -1 ; WX 606 ; N divide ; B 50 -22 556 528 ;  
C -1 ; WX 722 ; N Atilde ; B -8 0 730 893 ;  
C -1 ; WX 722 ; N Aring ; B -8 0 730 965 ;  
C -1 ; WX 778 ; N Odieresis ; B 45 -15 733 883 ;  
C -1 ; WX 722 ; N Adieresis ; B -8 0 730 883 ;  
C -1 ; WX 815 ; N Ntilde ; B 24 -15 791 893 ;  
C -1 ; WX 611 ; N Zcaron ; B 24 0 576 933 ;  
C -1 ; WX 667 ; N Thorn ; B 29 0 650 722 ;  
C -1 ; WX 407 ; N Iacute ; B 38 0 369 937 ;  
C -1 ; WX 606 ; N plusminus ; B 50 0 556 506 ;  
C -1 ; WX 606 ; N multiply ; B 74 24 532 482 ;

C -1 ; WX 722 ; N Eacute ; B 29 0 663 937 ;  
C -1 ; WX 704 ; N Ydieresis ; B -11 0 715 883 ;  
C -1 ; WX 333 ; N onesuperior ; B 39 282 294 705 ;  
C -1 ; WX 611 ; N ugrave ; B 22 -15 589 699 ;  
C -1 ; WX 606 ; N logicalnot ; B 50 108 556 389 ;  
C -1 ; WX 611 ; N tilde ; B 22 0 589 655 ;  
C -1 ; WX 778 ; N Otilde ; B 45 -15 733 893 ;  
C -1 ; WX 500 ; N otilde ; B 34 -15 466 655 ;  
C -1 ; WX 722 ; N Ccedilla ; B 45 -215 668 737 ;  
C -1 ; WX 722 ; N Agrave ; B -8 0 730 937 ;  
C -1 ; WX 834 ; N onehalf ; B 39 -15 820 705 ;  
C -1 ; WX 778 ; N Eth ; B 29 0 733 722 ;  
C -1 ; WX 400 ; N degree ; B 57 419 343 705 ;  
C -1 ; WX 704 ; N Yacute ; B -11 0 715 937 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 45 -15 733 933 ;  
C -1 ; WX 500 ; N oacute ; B 34 -15 466 699 ;  
C -1 ; WX 611 ; N mu ; B 22 -205 589 464 ;  
C -1 ; WX 606 ; N minus ; B 50 217 556 289 ;  
C -1 ; WX 500 ; N eth ; B 34 -15 466 752 ;  
C -1 ; WX 500 ; N odieresis ; B 34 -15 466 645 ;  
C -1 ; WX 737 ; N copyright ; B -8 -15 744 737 ;  
C -1 ; WX 606 ; N brokenbar ; B 267 -175 339 675 ;

EndCharMetrics

StartKernData

StartKernPairs 169

KPX A y -37

KPX A w -25

KPX A v -37

KPX A quoteright -74

KPX A quotedblright -74

KPX A Y -75

KPX A W -50

KPX A V -75

KPX A U -30

KPX A T -18

KPX B period -37

KPX B comma -37

KPX B A -18

KPX C period -37

KPX C comma -37

KPX C A -18

KPX D period -37

KPX D comma -37

KPX D Y -18

KPX D V -18

KPX F r -10

KPX F period -125

KPX F o -55

KPX F i -10

KPX F e -55

KPX F comma -125

KPX F a -65

KPX F A -50

KPX G period -37

KPX G comma -37

KPX J u -25

KPX J period -74

KPX J o -25

KPX J e -25

KPX J comma -74

KPX J a -25

KPX J A -18

KPX K y -25

KPX K o 10

KPX K e 10

KPX L y -25

KPX L quoteright -100

KPX L quotedblright -100

KPX L Y -74

KPX L W -74

KPX L V -91

KPX L T -75

KPX N period -55

KPX N comma -55

KPX O period -37

KPX O comma -37

KPX O Y -18

KPX O V -18

KPX O T 10

KPX P period -125

KPX P o -37

KPX P e -37

KPX P comma -125

KPX P a -37

KPX P A -55

KPX Q period -25  
KPX Q comma -25

KPX S period -37  
KPX S comma -37

KPX T semicolon -37  
KPX T period -125  
KPX T o -55  
KPX T hyphen -100  
KPX T e -55  
KPX T comma -125  
KPX T colon -37  
KPX T a -55  
KPX T O 10  
KPX T A -18

KPX U period -100  
KPX U comma -100  
KPX U A -30

KPX V u -75  
KPX V semicolon -75  
KPX V period -125  
KPX V o -75  
KPX V i -18  
KPX V hyphen -100  
KPX V e -75  
KPX V comma -125  
KPX V colon -75  
KPX V a -85  
KPX V O -18  
KPX V A -74

KPX W y -55  
KPX W u -55  
KPX W semicolon -100  
KPX W period -125  
KPX W o -60  
KPX W i -18  
KPX W hyphen -100  
KPX W e -60  
KPX W comma -125  
KPX W colon -100  
KPX W a -75  
KPX W A -50

KPX Y u -91  
KPX Y semicolon -75  
KPX Y period -100  
KPX Y o -100  
KPX Y i -18  
KPX Y hyphen -125  
KPX Y e -100  
KPX Y comma -100  
KPX Y colon -75  
KPX Y a -100  
KPX Y O -18  
KPX Y A -75

KPX a y -10  
KPX a w -10  
KPX a v -10

KPX b period -18  
KPX b comma -18

KPX c period -18  
KPX c l -7  
KPX c k -7  
KPX c h -7  
KPX c comma -18

KPX colon space -37

KPX comma space -37  
KPX comma quoteright -37  
KPX comma quotedblright -37

KPX e period -18  
KPX e comma -18

KPX f quoteright 100  
KPX f quotedblright 100  
KPX f period -37  
KPX f comma -37

KPX g period -25  
KPX g comma -25

KPX o period -18  
KPX o comma -18

KPX p period -18

KPX p comma -18

KPX period space -37

KPX period quoteright -37

KPX period quotedblright -37

KPX quotedblleft A -74

KPX quotedblright space -37

KPX quoteleft quoteleft -25

KPX quoteleft A -74

KPX quoteright s -25

KPX quoteright quoteright -25

KPX quoteright d -37

KPX r period -100

KPX r hyphen -37

KPX r comma -100

KPX s period -25

KPX s comma -25

KPX semicolon space -37

KPX space quoteleft -37

KPX space quotedblleft -37

KPX space Y -37

KPX space W -37

KPX space V -37

KPX space T -37

KPX space A -37

KPX v period -125

KPX v comma -125

KPX w period -125

KPX w comma -125

KPX w a -18

KPX y period -125

KPX y comma -125

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 238 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 238 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 238 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 238 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 195 243 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 238 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 195 238 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 195 238 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 195 238 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 195 238 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 37 238 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 37 238 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 37 238 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 37 238 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 241 238 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 238 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 238 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 238 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 238 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 238 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 149 238 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 241 238 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 241 238 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 241 238 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 241 238 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 216 238 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 186 238 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 238 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 112 10 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 84 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 84 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 84 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 84 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -9 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -9 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -9 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -9 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 84 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 84 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 65 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;

CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 139 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 102 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 102 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 74 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Mar 4 13:41:11 1991

Comment UniqueID 34367

Comment VMusage 6555 39267

FontName AvantGarde-BookOblique

FullName ITC Avant Garde Gothic Book Oblique

FamilyName ITC Avant Garde Gothic

Weight Book

ItalicAngle -10.5

IsFixedPitch false

FontBBox -113 -222 1279 955

UnderlinePosition -100

UnderlineThickness 50

Version 001.006

Notice Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved. ITC Avant Garde Gothic is a registered trademark of International Typeface Corporation.

EncodingScheme AdobeStandardEncoding

CapHeight 740

XHeight 547

Ascender 740

Descender -192

StartCharMetrics 228

C 32 ; WX 277 ; N space ; B 0 0 0 0 ;

C 33 ; WX 295 ; N exclam ; B 111 0 322 740 ;

C 34 ; WX 309 ; N quotedbl ; B 130 444 410 740 ;

C 35 ; WX 554 ; N numbersign ; B 71 0 620 740 ;

C 36 ; WX 554 ; N dollar ; B 107 -70 581 811 ;

C 37 ; WX 775 ; N percent ; B 124 -13 787 751 ;

C 38 ; WX 757 ; N ampersand ; B 92 -12 775 753 ;

C 39 ; WX 351 ; N quoteright ; B 195 546 393 740 ;

C 40 ; WX 369 ; N parenleft ; B 89 -205 495 757 ;

C 41 ; WX 369 ; N parenright ; B -24 -205 382 757 ;

C 42 ; WX 425 ; N asterisk ; B 170 446 479 740 ;

C 43 ; WX 606 ; N plus ; B 92 0 608 506 ;

C 44 ; WX 277 ; N comma ; B 2 -67 199 126 ;

C 45 ; WX 332 ; N hyphen ; B 76 248 360 315 ;

C 46 ; WX 277 ; N period ; B 102 0 199 126 ;

C 47 ; WX 437 ; N slash ; B 25 -100 540 740 ;

C 48 ; WX 554 ; N zero ; B 71 -13 622 753 ;



C 49 ; WX 554 ; N one ; B 260 0 473 740 ;  
C 50 ; WX 554 ; N two ; B 40 0 615 753 ;  
C 51 ; WX 554 ; N three ; B 73 -13 565 753 ;  
C 52 ; WX 554 ; N four ; B 39 0 598 740 ;  
C 53 ; WX 554 ; N five ; B 69 -13 605 740 ;  
C 54 ; WX 554 ; N six ; B 65 -13 580 739 ;  
C 55 ; WX 554 ; N seven ; B 110 0 628 740 ;  
C 56 ; WX 554 ; N eight ; B 77 -13 580 753 ;  
C 57 ; WX 554 ; N nine ; B 111 0 626 752 ;  
C 58 ; WX 277 ; N colon ; B 102 0 278 548 ;  
C 59 ; WX 277 ; N semicolon ; B 2 -67 278 548 ;  
C 60 ; WX 606 ; N less ; B 87 -8 649 514 ;  
C 61 ; WX 606 ; N equal ; B 73 118 627 388 ;  
C 62 ; WX 606 ; N greater ; B 51 -8 613 514 ;  
C 63 ; WX 591 ; N question ; B 158 0 628 752 ;  
C 64 ; WX 867 ; N at ; B 126 -13 888 753 ;  
C 65 ; WX 740 ; N A ; B 12 0 729 740 ;  
C 66 ; WX 574 ; N B ; B 74 0 606 740 ;  
C 67 ; WX 813 ; N C ; B 105 -13 870 752 ;  
C 68 ; WX 744 ; N D ; B 74 0 773 740 ;  
C 69 ; WX 536 ; N E ; B 70 0 612 740 ;  
C 70 ; WX 485 ; N F ; B 70 0 581 740 ;  
C 71 ; WX 872 ; N G ; B 103 -13 891 753 ;  
C 72 ; WX 683 ; N H ; B 76 0 744 740 ;  
C 73 ; WX 226 ; N I ; B 76 0 287 740 ;  
C 74 ; WX 482 ; N J ; B 37 -13 539 740 ;  
C 75 ; WX 591 ; N K ; B 81 0 728 740 ;  
C 76 ; WX 462 ; N L ; B 82 0 474 740 ;  
C 77 ; WX 919 ; N M ; B 76 0 980 740 ;  
C 78 ; WX 740 ; N N ; B 75 0 801 740 ;  
C 79 ; WX 869 ; N O ; B 105 -13 901 753 ;  
C 80 ; WX 592 ; N P ; B 75 0 664 740 ;  
C 81 ; WX 871 ; N Q ; B 102 -13 912 753 ;  
C 82 ; WX 607 ; N R ; B 70 0 669 740 ;  
C 83 ; WX 498 ; N S ; B 57 -13 561 753 ;  
C 84 ; WX 426 ; N T ; B 131 0 556 740 ;  
C 85 ; WX 655 ; N U ; B 118 -13 716 740 ;  
C 86 ; WX 702 ; N V ; B 145 0 830 740 ;  
C 87 ; WX 960 ; N W ; B 148 0 1087 740 ;  
C 88 ; WX 609 ; N X ; B 8 0 724 740 ;  
C 89 ; WX 592 ; N Y ; B 138 0 729 740 ;  
C 90 ; WX 480 ; N Z ; B 12 0 596 740 ;  
C 91 ; WX 351 ; N bracketleft ; B 145 -179 477 753 ;  
C 92 ; WX 605 ; N backslash ; B 255 -100 458 740 ;  
C 93 ; WX 351 ; N bracketright ; B -19 -179 312 753 ;  
C 94 ; WX 606 ; N asciicircum ; B 110 307 610 740 ;  
C 95 ; WX 500 ; N underscore ; B -23 -125 486 -75 ;  
C 96 ; WX 351 ; N quoteleft ; B 232 546 358 740 ;

C 97 ; WX 683 ; N a ; B 88 -13 722 561 ;  
C 98 ; WX 682 ; N b ; B 68 -13 703 740 ;  
C 99 ; WX 647 ; N c ; B 87 -13 678 561 ;  
C 100 ; WX 685 ; N d ; B 85 -13 755 740 ;  
C 101 ; WX 650 ; N e ; B 84 -13 664 561 ;  
C 102 ; WX 314 ; N f ; B 104 0 454 753 ; L i f i ; L l f l ;  
C 103 ; WX 673 ; N g ; B 56 -215 707 561 ;  
C 104 ; WX 610 ; N h ; B 62 0 606 740 ;  
C 105 ; WX 200 ; N i ; B 65 0 272 740 ;  
C 106 ; WX 203 ; N j ; B -80 -192 274 740 ;  
C 107 ; WX 502 ; N k ; B 70 0 588 740 ;  
C 108 ; WX 200 ; N l ; B 65 0 272 740 ;  
C 109 ; WX 938 ; N m ; B 66 0 938 561 ;  
C 110 ; WX 610 ; N n ; B 65 0 609 561 ;  
C 111 ; WX 655 ; N o ; B 88 -13 669 561 ;  
C 112 ; WX 682 ; N p ; B 28 -192 699 561 ;  
C 113 ; WX 682 ; N q ; B 83 -192 717 561 ;  
C 114 ; WX 301 ; N r ; B 65 0 395 561 ;  
C 115 ; WX 388 ; N s ; B 49 -13 424 561 ;  
C 116 ; WX 339 ; N t ; B 104 0 431 740 ;  
C 117 ; WX 608 ; N u ; B 100 -13 642 547 ;  
C 118 ; WX 554 ; N v ; B 108 0 647 547 ;  
C 119 ; WX 831 ; N w ; B 114 0 921 547 ;  
C 120 ; WX 480 ; N x ; B 12 0 569 547 ;  
C 121 ; WX 536 ; N y ; B 97 -192 624 547 ;  
C 122 ; WX 425 ; N z ; B 10 0 498 547 ;  
C 123 ; WX 351 ; N braceleft ; B 115 -189 468 740 ;  
C 124 ; WX 672 ; N bar ; B 280 -100 510 740 ;  
C 125 ; WX 351 ; N braceright ; B -15 -189 338 740 ;  
C 126 ; WX 606 ; N asciitilde ; B 114 179 584 319 ;  
C 161 ; WX 295 ; N exclamdown ; B 74 -192 286 548 ;  
C 162 ; WX 554 ; N cent ; B 115 62 596 707 ;  
C 163 ; WX 554 ; N sterling ; B 29 0 614 753 ;  
C 164 ; WX 166 ; N fraction ; B -113 0 417 740 ;  
C 165 ; WX 554 ; N yen ; B 75 0 687 740 ;  
C 166 ; WX 554 ; N florin ; B -39 -153 669 818 ;  
C 167 ; WX 615 ; N section ; B 118 -141 597 753 ;  
C 168 ; WX 554 ; N currency ; B 24 42 645 580 ;  
C 169 ; WX 198 ; N quotesingle ; B 153 444 277 740 ;  
C 170 ; WX 502 ; N quotedblleft ; B 234 546 507 740 ;  
C 171 ; WX 425 ; N guillemotleft ; B 92 81 469 481 ;  
C 172 ; WX 251 ; N guilsinglleft ; B 92 81 295 481 ;  
C 173 ; WX 251 ; N guilsinglright ; B 60 81 263 481 ;  
C 174 ; WX 487 ; N fi ; B 104 0 559 753 ;  
C 175 ; WX 485 ; N fl ; B 104 0 557 753 ;  
C 177 ; WX 500 ; N endash ; B 81 248 523 315 ;  
C 178 ; WX 553 ; N dagger ; B 146 -133 593 740 ;  
C 179 ; WX 553 ; N daggerdbl ; B 72 -133 593 740 ;

C 180 ; WX 277 ; N periodcentered ; B 137 190 235 316 ;  
C 182 ; WX 564 ; N paragraph ; B 119 -110 688 740 ;  
C 183 ; WX 606 ; N bullet ; B 217 222 528 532 ;  
C 184 ; WX 354 ; N quotesinglbase ; B 76 -68 274 126 ;  
C 185 ; WX 502 ; N quotedblbase ; B 76 -68 422 126 ;  
C 186 ; WX 484 ; N quotedblright ; B 197 546 542 740 ;  
C 187 ; WX 425 ; N guillemotright ; B 60 81 437 481 ;  
C 188 ; WX 1000 ; N ellipsis ; B 130 0 893 126 ;  
C 189 ; WX 1174 ; N perthousand ; B 128 -13 1182 751 ;  
C 191 ; WX 591 ; N questiondown ; B 64 -205 534 548 ;  
C 193 ; WX 378 ; N grave ; B 204 619 425 786 ;  
C 194 ; WX 375 ; N acute ; B 203 619 444 786 ;  
C 195 ; WX 502 ; N circumflex ; B 192 639 546 764 ;  
C 196 ; WX 439 ; N tilde ; B 179 651 520 754 ;  
C 197 ; WX 485 ; N macron ; B 197 669 547 736 ;  
C 198 ; WX 453 ; N breve ; B 192 651 541 754 ;  
C 199 ; WX 222 ; N dotaccent ; B 192 639 290 765 ;  
C 200 ; WX 369 ; N dieresis ; B 191 639 437 765 ;  
C 202 ; WX 332 ; N ring ; B 191 600 401 807 ;  
C 203 ; WX 324 ; N cedilla ; B 52 -222 231 0 ;  
C 205 ; WX 552 ; N hungarumlaut ; B 239 605 594 800 ;  
C 206 ; WX 302 ; N ogonek ; B 53 -191 202 0 ;  
C 207 ; WX 502 ; N caron ; B 210 639 565 764 ;  
C 208 ; WX 1000 ; N emdash ; B 81 248 1023 315 ;  
C 225 ; WX 992 ; N AE ; B -20 0 1044 740 ;  
C 227 ; WX 369 ; N ordfeminine ; B 102 407 494 753 ;  
C 232 ; WX 517 ; N Lslash ; B 107 0 529 740 ;  
C 233 ; WX 868 ; N Oslash ; B 76 -83 929 819 ;  
C 234 ; WX 1194 ; N OE ; B 107 -13 1279 753 ;  
C 235 ; WX 369 ; N ordmasculine ; B 116 407 466 753 ;  
C 241 ; WX 1157 ; N ae ; B 80 -13 1169 561 ;  
C 245 ; WX 200 ; N dotlessi ; B 65 0 236 547 ;  
C 248 ; WX 300 ; N lslash ; B 95 0 354 740 ;  
C 249 ; WX 653 ; N oslash ; B 51 -64 703 614 ;  
C 250 ; WX 1137 ; N oe ; B 80 -13 1160 561 ;  
C 251 ; WX 554 ; N germandbls ; B 61 -13 578 753 ;  
C -1 ; WX 650 ; N ecircumflex ; B 84 -13 664 764 ;  
C -1 ; WX 650 ; N edieresis ; B 84 -13 664 765 ;  
C -1 ; WX 683 ; N aacute ; B 88 -13 722 786 ;  
C -1 ; WX 747 ; N registered ; B 53 -12 830 752 ;  
C -1 ; WX 200 ; N icircumflex ; B 41 0 395 764 ;  
C -1 ; WX 608 ; N udieresis ; B 100 -13 642 765 ;  
C -1 ; WX 655 ; N ograve ; B 88 -13 669 786 ;  
C -1 ; WX 608 ; N uacute ; B 100 -13 642 786 ;  
C -1 ; WX 608 ; N ucircumflex ; B 100 -13 642 764 ;  
C -1 ; WX 740 ; N Aacute ; B 12 0 729 949 ;  
C -1 ; WX 200 ; N igrave ; B 65 0 296 786 ;  
C -1 ; WX 226 ; N Icircumflex ; B 76 0 439 927 ;

C -1 ; WX 647 ; N ccedilla ; B 87 -222 678 561 ;  
C -1 ; WX 683 ; N adieresis ; B 88 -13 722 765 ;  
C -1 ; WX 536 ; N Ecircumflex ; B 70 0 612 927 ;  
C -1 ; WX 388 ; N scaron ; B 49 -13 508 764 ;  
C -1 ; WX 682 ; N thorn ; B 28 -192 699 740 ;  
C -1 ; WX 1000 ; N trademark ; B 137 296 953 740 ;  
C -1 ; WX 650 ; N egrave ; B 84 -13 664 786 ;  
C -1 ; WX 332 ; N threesuperior ; B 98 289 408 747 ;  
C -1 ; WX 425 ; N zcaron ; B 10 0 527 764 ;  
C -1 ; WX 683 ; N tilde ; B 88 -13 722 754 ;  
C -1 ; WX 683 ; N aring ; B 88 -13 722 807 ;  
C -1 ; WX 655 ; N ocircumflex ; B 88 -13 669 764 ;  
C -1 ; WX 536 ; N Edieresis ; B 70 0 612 928 ;  
C -1 ; WX 831 ; N threequarters ; B 126 0 825 747 ;  
C -1 ; WX 536 ; N ydieresis ; B 97 -192 624 765 ;  
C -1 ; WX 536 ; N yacute ; B 97 -192 624 786 ;  
C -1 ; WX 200 ; N iacute ; B 65 0 397 786 ;  
C -1 ; WX 740 ; N Acircumflex ; B 12 0 729 927 ;  
C -1 ; WX 655 ; N Uacute ; B 118 -13 716 949 ;  
C -1 ; WX 650 ; N eacute ; B 84 -13 664 786 ;  
C -1 ; WX 869 ; N Ograve ; B 105 -13 901 949 ;  
C -1 ; WX 683 ; N agrave ; B 88 -13 722 786 ;  
C -1 ; WX 655 ; N Udieresis ; B 118 -13 716 928 ;  
C -1 ; WX 683 ; N acircumflex ; B 88 -13 722 764 ;  
C -1 ; WX 226 ; N Igrave ; B 76 0 340 949 ;  
C -1 ; WX 332 ; N twosuperior ; B 74 296 433 747 ;  
C -1 ; WX 655 ; N Ugrave ; B 118 -13 716 949 ;  
C -1 ; WX 831 ; N onequarter ; B 183 0 770 740 ;  
C -1 ; WX 655 ; N Ucircumflex ; B 118 -13 716 927 ;  
C -1 ; WX 498 ; N Scaron ; B 57 -13 593 927 ;  
C -1 ; WX 226 ; N Idieresis ; B 76 0 396 928 ;  
C -1 ; WX 200 ; N idieresis ; B 65 0 353 765 ;  
C -1 ; WX 536 ; N Egrave ; B 70 0 612 949 ;  
C -1 ; WX 869 ; N Oacute ; B 105 -13 901 949 ;  
C -1 ; WX 606 ; N divide ; B 92 -13 608 519 ;  
C -1 ; WX 740 ; N Atilde ; B 12 0 729 917 ;  
C -1 ; WX 740 ; N Aring ; B 12 0 729 955 ;  
C -1 ; WX 869 ; N Odieresis ; B 105 -13 901 928 ;  
C -1 ; WX 740 ; N Adieresis ; B 12 0 729 928 ;  
C -1 ; WX 740 ; N Ntilde ; B 75 0 801 917 ;  
C -1 ; WX 480 ; N Zcaron ; B 12 0 596 927 ;  
C -1 ; WX 592 ; N Thorn ; B 60 0 621 740 ;  
C -1 ; WX 226 ; N Iacute ; B 76 0 440 949 ;  
C -1 ; WX 606 ; N plusminus ; B 47 -24 618 518 ;  
C -1 ; WX 606 ; N multiply ; B 87 24 612 482 ;  
C -1 ; WX 536 ; N Eacute ; B 70 0 612 949 ;  
C -1 ; WX 592 ; N Ydieresis ; B 138 0 729 928 ;  
C -1 ; WX 332 ; N onesuperior ; B 190 296 335 740 ;

C -1 ; WX 608 ; N ugrave ; B 100 -13 642 786 ;  
C -1 ; WX 606 ; N logicalnot ; B 110 109 627 388 ;  
C -1 ; WX 610 ; N ntilde ; B 65 0 609 754 ;  
C -1 ; WX 869 ; N Otilde ; B 105 -13 901 917 ;  
C -1 ; WX 655 ; N otilde ; B 88 -13 669 754 ;  
C -1 ; WX 813 ; N Ccedilla ; B 105 -222 870 752 ;  
C -1 ; WX 740 ; N Agrave ; B 12 0 729 949 ;  
C -1 ; WX 831 ; N onehalf ; B 164 0 810 740 ;  
C -1 ; WX 790 ; N Eth ; B 104 0 813 740 ;  
C -1 ; WX 400 ; N degree ; B 158 421 451 709 ;  
C -1 ; WX 592 ; N Yacute ; B 138 0 729 949 ;  
C -1 ; WX 869 ; N Ocircumflex ; B 105 -13 901 927 ;  
C -1 ; WX 655 ; N oacute ; B 88 -13 669 786 ;  
C -1 ; WX 608 ; N mu ; B 46 -184 628 547 ;  
C -1 ; WX 606 ; N minus ; B 92 219 608 287 ;  
C -1 ; WX 655 ; N eth ; B 88 -12 675 753 ;  
C -1 ; WX 655 ; N odieresis ; B 88 -13 669 765 ;  
C -1 ; WX 747 ; N copyright ; B 53 -12 830 752 ;  
C -1 ; WX 672 ; N brokenbar ; B 280 -100 510 740 ;

EndCharMetrics

StartKernData

StartKernPairs 216

KPX A y -62

KPX A w -65

KPX A v -70

KPX A u -20

KPX A quoteright -100

KPX A quotedblright -100

KPX A Y -92

KPX A W -60

KPX A V -102

KPX A U -40

KPX A T -45

KPX A Q -40

KPX A O -50

KPX A G -40

KPX A C -40

KPX B A -10

KPX C A -40

KPX D period -20

KPX D comma -20

KPX D Y -30

KPX D W -10

KPX D V -50

KPX D A -50

KPX F period -160

KPX F e -20

KPX F comma -180

KPX F a -20

KPX F A -75

KPX G period -20

KPX G comma -20

KPX G Y -20

KPX J period -15

KPX J a -20

KPX J A -30

KPX K o -15

KPX K e -20

KPX K O -20

KPX L y -23

KPX L quoteright -130

KPX L quotedblright -130

KPX L Y -91

KPX L W -67

KPX L V -113

KPX L T -46

KPX O period -30

KPX O comma -30

KPX O Y -30

KPX O X -30

KPX O W -20

KPX O V -60

KPX O T -30

KPX O A -60

KPX P period -300

KPX P o -60

KPX P e -20

KPX P comma -280

KPX P a -20

KPX P A -114

KPX Q comma 20

KPX R Y -10

KPX R W 10

KPX R V -10

KPX R T 6

KPX S comma 20

KPX T y -50

KPX T w -55

KPX T u -46

KPX T semicolon -29

KPX T r -30

KPX T period -91

KPX T o -70

KPX T i 10

KPX T hyphen -75

KPX T e -49

KPX T comma -82

KPX T colon -15

KPX T a -90

KPX T O -30

KPX T A -45

KPX U period -20

KPX U comma -20

KPX U A -40

KPX V u -40

KPX V semicolon -33

KPX V period -165

KPX V o -101

KPX V i -5

KPX V hyphen -75

KPX V e -101

KPX V comma -145

KPX V colon -18

KPX V a -104

KPX V O -60

KPX V G -20

KPX V A -102

KPX W y -2

KPX W u -30

KPX W semicolon -33

KPX W period -106

KPX W o -46

KPX W i 6

KPX W hyphen -35

KPX W e -47

KPX W comma -106

KPX W colon -15  
KPX W a -50  
KPX W O -20  
KPX W A -58

KPX Y u -52  
KPX Y semicolon -23  
KPX Y period -175  
KPX Y o -89  
KPX Y hyphen -85  
KPX Y e -89  
KPX Y comma -145  
KPX Y colon -10  
KPX Y a -93  
KPX Y O -30  
KPX Y A -92

KPX a p 20  
KPX a b 20

KPX b y -20  
KPX b v -20

KPX c y -20  
KPX c k -15

KPX comma space -110  
KPX comma quoteright -120  
KPX comma quotedblright -120

KPX e y -20  
KPX e w -20  
KPX e v -20

KPX f period -50  
KPX f o -40  
KPX f l -30  
KPX f i -34  
KPX f f -60  
KPX f e -20  
KPX f dotlessi -34  
KPX f comma -50  
KPX f a -40

KPX g a -15

KPX h y -30



KPX k y -5  
KPX k e -15

KPX m y -20  
KPX m u -20  
KPX m a -20

KPX n y -15  
KPX n v -20

KPX o y -20  
KPX o x -15  
KPX o w -20  
KPX o v -30

KPX p y -20

KPX period space -110  
KPX period quoteright -120  
KPX period quotedblright -120

KPX quotedblleft quoteleft -35  
KPX quotedblleft A -100

KPX quotedblright space -110

KPX quoteleft quoteleft -203  
KPX quoteleft A -100

KPX quoteright v -30  
KPX quoteright t 10  
KPX quoteright space -110  
KPX quoteright s -15  
KPX quoteright r -20  
KPX quoteright quoteright -203  
KPX quoteright quotedblright -35  
KPX quoteright d -110

KPX r y 40  
KPX r v 40  
KPX r u 20  
KPX r t 20  
KPX r s 20  
KPX r q -8  
KPX r period -73  
KPX r p 20  
KPX r o -20  
KPX r n 21

KPX r m 28  
KPX r l 20  
KPX r k 20  
KPX r i 20  
KPX r hyphen -60  
KPX r g -15  
KPX r e -4  
KPX r d -6  
KPX r comma -75  
KPX r c -20  
KPX r a -20

KPX s period 20  
KPX s comma 20

KPX space quoteleft -110  
KPX space quotedbleft -110  
KPX space Y -60  
KPX space W -25  
KPX space V -50  
KPX space T -25  
KPX space A -20

KPX v period -130  
KPX v o -30  
KPX v e -20  
KPX v comma -100  
KPX v a -30

KPX w period -100  
KPX w o -30  
KPX w h 15  
KPX w e -20  
KPX w comma -90  
KPX w a -30

KPX y period -125  
KPX y o -30  
KPX y e -20  
KPX y comma -110  
KPX y a -30  
EndKernPairs  
EndKernData  
StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 213 163 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 149 163 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 216 163 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 211 163 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 231 148 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 181 163 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 111 163 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 47 163 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 114 163 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 109 163 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -4 163 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -108 163 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -41 163 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -86 163 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 181 163 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 277 163 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 214 163 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 280 163 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 276 163 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 245 163 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 28 163 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 190 163 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 107 163 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 173 163 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 149 163 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 159 163 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 142 163 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 19 163 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 154 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 91 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 157 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 153 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 176 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 122 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 138 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 74 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 141 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 136 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -47 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -151 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -84 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -129 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 86 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 140 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 77 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 143 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 108 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron -57 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 137 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 53 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 120 0 ;

CC ugrave 2 ; PCC u 0 0 ; PCC grave 95 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 101 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron -38 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Creation Date: Thu Jun 21 22:23:28 1990  
Comment UniqueID 5000793  
FontName CMR10  
EncodingScheme FontSpecific  
FullName CMR10  
FamilyName Computer Modern  
Weight Medium  
ItalicAngle 0.0  
IsFixedPitch false  
Version 1.00B  
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.  
Comment Computer Modern fonts were designed by Donald E. Knuth  
FontBBox -40 -250 1009 969  
CapHeight 683.333  
XHeight 430.556  
Ascender 694.444  
Descender -194.444  
Comment FontID CMR  
Comment DesignSize 10 (pts)  
Comment CharacterCodingScheme TeX text  
Comment Space 333.333 166.667 111.111  
Comment ExtraSpace 111.111  
Comment Quad 1000  
StartCharMetrics 129  
C 0 ; WX 625 ; N Gamma ; B 33 0 582 680 ;  
C 1 ; WX 833.333 ; N Delta ; B 47 0 785 716 ;  
C 2 ; WX 777.778 ; N Theta ; B 56 -22 721 705 ;  
C 3 ; WX 694.444 ; N Lambda ; B 32 0 661 716 ;  
C 4 ; WX 666.667 ; N Xi ; B 42 0 624 677 ;  
C 5 ; WX 750 ; N Pi ; B 33 0 716 680 ;  
C 6 ; WX 722.222 ; N Sigma ; B 56 0 665 683 ;  
C 7 ; WX 777.778 ; N Upsilon ; B 56 0 721 705 ;  
C 8 ; WX 722.222 ; N Phi ; B 56 0 665 683 ;  
C 9 ; WX 777.778 ; N Psi ; B 57 0 720 683 ;  
C 10 ; WX 722.222 ; N Omega ; B 44 0 677 705 ;  
C 11 ; WX 583.333 ; N ff ; B 27 0 628 705 ; L i ffi ; L l ffl ;  
C 12 ; WX 555.556 ; N fi ; B 27 0 527 705 ;  
C 13 ; WX 555.556 ; N fl ; B 27 0 527 705 ;  
C 14 ; WX 833.333 ; N ffi ; B 27 0 804 705 ;  
C 15 ; WX 833.333 ; N ffl ; B 27 0 804 705 ;  
C 16 ; WX 277.778 ; N dotlessi ; B 33 0 247 442 ;

C 17 ; WX 305.556 ; N dotlessj ; B -40 -205 210 442 ;  
C 18 ; WX 500 ; N grave ; B 107 510 293 698 ;  
C 19 ; WX 500 ; N acute ; B 206 510 392 698 ;  
C 20 ; WX 500 ; N caron ; B 118 516 381 638 ;  
C 21 ; WX 500 ; N breve ; B 100 522 399 694 ;  
C 22 ; WX 500 ; N macron ; B 69 559 430 590 ;  
C 23 ; WX 750 ; N ring ; B 279 541 470 716 ;  
C 24 ; WX 444.444 ; N cedilla ; B 131 -203 367 -22 ;  
C 25 ; WX 500 ; N germandbls ; B 28 -11 471 705 ;  
C 26 ; WX 722.222 ; N ae ; B 45 -11 693 448 ;  
C 27 ; WX 777.778 ; N oe ; B 28 -11 749 448 ;  
C 28 ; WX 500 ; N oslash ; B 35 -102 464 534 ;  
C 29 ; WX 902.778 ; N AE ; B 32 0 874 683 ;  
C 30 ; WX 1013.89 ; N OE ; B 70 -22 985 705 ;  
C 31 ; WX 777.778 ; N Oslash ; B 56 -56 721 739 ;  
C 32 ; WX 277.778 ; N suppress ; B 27 280 262 392 ;  
C 33 ; WX 277.778 ; N exclam ; B 86 0 192 716 ; L quoteleft exclamdown ;  
C 34 ; WX 500 ; N quotedblright ; B 33 395 347 694 ;  
C 35 ; WX 833.333 ; N numbersign ; B 56 -194 776 694 ;  
C 36 ; WX 500 ; N dollar ; B 56 -56 443 750 ;  
C 37 ; WX 833.333 ; N percent ; B 56 -56 776 750 ;  
C 38 ; WX 777.778 ; N ampersand ; B 42 -22 727 716 ;  
C 39 ; WX 277.778 ; N quoteright ; B 86 395 206 694 ; L quoteright quotedblright ;  
C 40 ; WX 388.889 ; N parenleft ; B 99 -250 331 750 ;  
C 41 ; WX 388.889 ; N parenright ; B 57 -250 289 750 ;  
C 42 ; WX 500 ; N asterisk ; B 65 319 434 750 ;  
C 43 ; WX 777.778 ; N plus ; B 56 -83 721 583 ;  
C 44 ; WX 277.778 ; N comma ; B 86 -193 203 106 ;  
C 45 ; WX 333.333 ; N hyphen ; B 11 187 276 245 ; L hyphen endash ;  
C 46 ; WX 277.778 ; N period ; B 86 0 192 106 ;  
C 47 ; WX 500 ; N slash ; B 56 -250 443 750 ;  
C 48 ; WX 500 ; N zero ; B 39 -22 460 666 ;  
C 49 ; WX 500 ; N one ; B 89 0 419 666 ;  
C 50 ; WX 500 ; N two ; B 50 0 449 666 ;  
C 51 ; WX 500 ; N three ; B 42 -22 457 666 ;  
C 52 ; WX 500 ; N four ; B 28 0 471 677 ;  
C 53 ; WX 500 ; N five ; B 50 -22 449 666 ;  
C 54 ; WX 500 ; N six ; B 42 -22 457 666 ;  
C 55 ; WX 500 ; N seven ; B 56 -22 485 676 ;  
C 56 ; WX 500 ; N eight ; B 42 -22 457 666 ;  
C 57 ; WX 500 ; N nine ; B 42 -22 457 666 ;  
C 58 ; WX 277.778 ; N colon ; B 86 0 192 431 ;  
C 59 ; WX 277.778 ; N semicolon ; B 86 -193 195 431 ;  
C 60 ; WX 277.778 ; N exclamdown ; B 86 -216 192 500 ;  
C 61 ; WX 777.778 ; N equal ; B 56 133 721 367 ;  
C 62 ; WX 472.222 ; N questiondown ; B 56 -205 415 500 ;  
C 63 ; WX 472.222 ; N question ; B 56 0 415 705 ; L quoteleft questiondown ;  
C 64 ; WX 777.778 ; N at ; B 56 -11 721 705 ;

C 65 ; WX 750 ; N A ; B 32 0 717 716 ;  
C 66 ; WX 708.333 ; N B ; B 36 0 651 683 ;  
C 67 ; WX 722.222 ; N C ; B 56 -22 665 705 ;  
C 68 ; WX 763.889 ; N D ; B 35 0 707 683 ;  
C 69 ; WX 680.556 ; N E ; B 33 0 652 680 ;  
C 70 ; WX 652.778 ; N F ; B 33 0 610 680 ;  
C 71 ; WX 784.722 ; N G ; B 56 -22 735 705 ;  
C 72 ; WX 750 ; N H ; B 33 0 716 683 ;  
C 73 ; WX 361.111 ; N I ; B 28 0 333 683 ;  
C 74 ; WX 513.889 ; N J ; B 41 -22 465 683 ;  
C 75 ; WX 777.778 ; N K ; B 33 0 736 683 ;  
C 76 ; WX 625 ; N L ; B 33 0 582 683 ;  
C 77 ; WX 916.667 ; N M ; B 37 0 879 683 ;  
C 78 ; WX 750 ; N N ; B 33 0 716 683 ;  
C 79 ; WX 777.778 ; N O ; B 56 -22 721 705 ;  
C 80 ; WX 680.556 ; N P ; B 35 0 624 683 ;  
C 81 ; WX 777.778 ; N Q ; B 56 -194 727 705 ;  
C 82 ; WX 736.111 ; N R ; B 35 -22 732 683 ;  
C 83 ; WX 555.556 ; N S ; B 56 -22 499 705 ;  
C 84 ; WX 722.222 ; N T ; B 36 0 685 677 ;  
C 85 ; WX 750 ; N U ; B 33 -22 716 683 ;  
C 86 ; WX 750 ; N V ; B 19 -22 730 683 ;  
C 87 ; WX 1027.78 ; N W ; B 18 -22 1009 683 ;  
C 88 ; WX 750 ; N X ; B 24 0 726 683 ;  
C 89 ; WX 750 ; N Y ; B 11 0 738 683 ;  
C 90 ; WX 611.111 ; N Z ; B 56 0 560 683 ;  
C 91 ; WX 277.778 ; N bracketleft ; B 118 -250 255 750 ;  
C 92 ; WX 500 ; N quotedblleft ; B 152 394 466 693 ;  
C 93 ; WX 277.778 ; N bracketright ; B 22 -250 159 750 ;  
C 94 ; WX 500 ; N circumflex ; B 116 540 383 694 ;  
C 95 ; WX 277.778 ; N dotaccent ; B 85 563 192 669 ;  
C 96 ; WX 277.778 ; N quoteleft ; B 72 394 192 693 ; L quoteleft quotedblleft ;  
C 97 ; WX 500 ; N a ; B 42 -11 493 448 ;  
C 98 ; WX 555.556 ; N b ; B 28 -11 521 694 ;  
C 99 ; WX 444.444 ; N c ; B 34 -11 415 448 ;  
C 100 ; WX 555.556 ; N d ; B 34 -11 527 694 ;  
C 101 ; WX 444.444 ; N e ; B 28 -11 415 448 ;  
C 102 ; WX 305.556 ; N f ; B 33 0 357 705 ; L i fi ; L f ff ; L l fl ;  
C 103 ; WX 500 ; N g ; B 28 -206 485 453 ;  
C 104 ; WX 555.556 ; N h ; B 32 0 535 694 ;  
C 105 ; WX 277.778 ; N i ; B 33 0 247 669 ;  
C 106 ; WX 305.556 ; N j ; B -40 -205 210 669 ;  
C 107 ; WX 527.778 ; N k ; B 28 0 511 694 ;  
C 108 ; WX 277.778 ; N l ; B 33 0 255 694 ;  
C 109 ; WX 833.333 ; N m ; B 32 0 813 442 ;  
C 110 ; WX 555.556 ; N n ; B 32 0 535 442 ;  
C 111 ; WX 500 ; N o ; B 28 -11 471 448 ;  
C 112 ; WX 555.556 ; N p ; B 28 -194 521 442 ;

C 113 ; WX 527.778 ; N q ; B 34 -194 527 442 ;  
C 114 ; WX 391.667 ; N r ; B 28 0 364 442 ;  
C 115 ; WX 394.444 ; N s ; B 33 -11 360 448 ;  
C 116 ; WX 388.889 ; N t ; B 19 -11 332 615 ;  
C 117 ; WX 555.556 ; N u ; B 32 -11 535 442 ;  
C 118 ; WX 527.778 ; N v ; B 19 -11 508 431 ;  
C 119 ; WX 722.222 ; N w ; B 18 -11 703 431 ;  
C 120 ; WX 527.778 ; N x ; B 12 0 516 431 ;  
C 121 ; WX 527.778 ; N y ; B 19 -205 508 431 ;  
C 122 ; WX 444.444 ; N z ; B 28 0 401 431 ;  
C 123 ; WX 500 ; N endash ; B 0 255 499 277 ; L hyphen emdash ;  
C 124 ; WX 1000 ; N emdash ; B 0 255 999 277 ;  
C 125 ; WX 500 ; N hungarumlaut ; B 128 513 420 699 ;  
C 126 ; WX 500 ; N tilde ; B 83 575 416 668 ;  
C 127 ; WX 500 ; N dieresis ; B 103 569 396 669 ;  
C -1 ; WX 333.333 ; N space ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 183

KPX ff quoteright 77.778

KPX ff question 77.778

KPX ff exclam 77.778

KPX ff parenright 77.778

KPX ff bracketright 77.778

KPX suppress 1 -277.778

KPX suppress L -319.444

KPX quoteright question 111.111

KPX quoteright exclam 111.111

KPX A t -27.778

KPX A C -27.778

KPX A O -27.778

KPX A G -27.778

KPX A U -27.778

KPX A Q -27.778

KPX A T -83.333

KPX A Y -83.333

KPX A V -111.111

KPX A W -111.111

KPX D X -27.778

KPX D W -27.778

KPX D A -27.778

KPX D V -27.778

KPX D Y -27.778

KPX F o -83.333

KPX F e -83.333

KPX F u -83.333

KPX F r -83.333

KPX F a -83.333

KPX F A -111.111  
KPX F O -27.778  
KPX F C -27.778  
KPX F G -27.778  
KPX F Q -27.778  
KPX I I 27.778  
KPX K O -27.778  
KPX K C -27.778  
KPX K G -27.778  
KPX K Q -27.778  
KPX L T -83.333  
KPX L Y -83.333  
KPX L V -111.111  
KPX L W -111.111  
KPX O X -27.778  
KPX O W -27.778  
KPX O A -27.778  
KPX O V -27.778  
KPX O Y -27.778  
KPX P A -83.333  
KPX P o -27.778  
KPX P e -27.778  
KPX P a -27.778  
KPX P period -83.333  
KPX P comma -83.333  
KPX R t -27.778  
KPX R C -27.778  
KPX R O -27.778  
KPX R G -27.778  
KPX R U -27.778  
KPX R Q -27.778  
KPX R T -83.333  
KPX R Y -83.333  
KPX R V -111.111  
KPX R W -111.111  
KPX T y -27.778  
KPX T e -83.333  
KPX T o -83.333  
KPX T r -83.333  
KPX T a -83.333  
KPX T A -83.333  
KPX T u -83.333  
KPX V o -83.333  
KPX V e -83.333  
KPX V u -83.333  
KPX V r -83.333  
KPX V a -83.333  
KPX V A -111.111



KPX V O -27.778  
KPX V C -27.778  
KPX V G -27.778  
KPX V Q -27.778  
KPX W o -83.333  
KPX W e -83.333  
KPX W u -83.333  
KPX W r -83.333  
KPX W a -83.333  
KPX W A -111.111  
KPX W O -27.778  
KPX W C -27.778  
KPX W G -27.778  
KPX W Q -27.778  
KPX X O -27.778  
KPX X C -27.778  
KPX X G -27.778  
KPX X Q -27.778  
KPX Y e -83.333  
KPX Y o -83.333  
KPX Y r -83.333  
KPX Y a -83.333  
KPX Y A -83.333  
KPX Y u -83.333  
KPX a v -27.778  
KPX a j 55.556  
KPX a y -27.778  
KPX a w -27.778  
KPX b e 27.778  
KPX b o 27.778  
KPX b x -27.778  
KPX b d 27.778  
KPX b c 27.778  
KPX b q 27.778  
KPX b v -27.778  
KPX b j 55.556  
KPX b y -27.778  
KPX b w -27.778  
KPX c h -27.778  
KPX c k -27.778  
KPX f quoteright 77.778  
KPX f question 77.778  
KPX f exclam 77.778  
KPX f parenright 77.778  
KPX f bracketright 77.778  
KPX g j 27.778  
KPX h t -27.778  
KPX h u -27.778

KPX h b -27.778  
KPX h y -27.778  
KPX h v -27.778  
KPX h w -27.778  
KPX k a -55.556  
KPX k e -27.778  
KPX k a -27.778  
KPX k o -27.778  
KPX k c -27.778  
KPX m t -27.778  
KPX m u -27.778  
KPX m b -27.778  
KPX m y -27.778  
KPX m v -27.778  
KPX m w -27.778  
KPX n t -27.778  
KPX n u -27.778  
KPX n b -27.778  
KPX n y -27.778  
KPX n v -27.778  
KPX n w -27.778  
KPX o e 27.778  
KPX o o 27.778  
KPX o x -27.778  
KPX o d 27.778  
KPX o c 27.778  
KPX o q 27.778  
KPX o v -27.778  
KPX o j 55.556  
KPX o y -27.778  
KPX o w -27.778  
KPX p e 27.778  
KPX p o 27.778  
KPX p x -27.778  
KPX p d 27.778  
KPX p c 27.778  
KPX p q 27.778  
KPX p v -27.778  
KPX p j 55.556  
KPX p y -27.778  
KPX p w -27.778  
KPX t y -27.778  
KPX t w -27.778  
KPX u w -27.778  
KPX v a -55.556  
KPX v e -27.778  
KPX v a -27.778  
KPX v o -27.778

KPX v c -27.778  
KPX w e -27.778  
KPX w a -27.778  
KPX w o -27.778  
KPX w c -27.778  
KPX y o -27.778  
KPX y e -27.778  
KPX y a -27.778  
KPX y period -83.333  
KPX y comma -83.333  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Tue May 28 16:40:04 1991  
Comment UniqueID 35028  
Comment VMusage 31423 38315  
FontName NewCenturySchlbk-Italic  
FullName New Century Schoolbook Italic  
FamilyName New Century Schoolbook  
Weight Medium  
ItalicAngle -16  
IsFixedPitch false  
FontBBox -166 -250 994 958  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.006  
Notice Copyright (c) 1985, 1987, 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
EncodingScheme AdobeStandardEncoding  
CapHeight 722  
XHeight 466  
Ascender 737  
Descender -205  
StartCharMetrics 228  
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 17 -15 303 737 ;  
C 34 ; WX 400 ; N quotedbl ; B 127 463 363 737 ;  
C 35 ; WX 556 ; N numbersign ; B 28 0 528 690 ;  
C 36 ; WX 556 ; N dollar ; B 4 -142 536 808 ;  
C 37 ; WX 833 ; N percent ; B 43 -15 790 705 ;  
C 38 ; WX 852 ; N ampersand ; B 24 -15 773 737 ;  
C 39 ; WX 204 ; N quoteright ; B 39 463 229 737 ;  
C 40 ; WX 333 ; N parenleft ; B 53 -117 411 745 ;  
C 41 ; WX 333 ; N parenright ; B -93 -117 265 745 ;  
C 42 ; WX 500 ; N asterisk ; B 80 318 500 737 ;  
C 43 ; WX 606 ; N plus ; B 50 0 556 506 ;  
C 44 ; WX 278 ; N comma ; B -39 -165 151 109 ;

C 45 ; WX 333 ; N hyphen ; B 32 202 259 274 ;  
C 46 ; WX 278 ; N period ; B 17 -15 141 109 ;  
C 47 ; WX 606 ; N slash ; B 132 -15 474 737 ;  
C 48 ; WX 556 ; N zero ; B 30 -15 526 705 ;  
C 49 ; WX 556 ; N one ; B 50 0 459 705 ;  
C 50 ; WX 556 ; N two ; B -37 0 506 705 ;  
C 51 ; WX 556 ; N three ; B -2 -15 506 705 ;  
C 52 ; WX 556 ; N four ; B -8 0 512 705 ;  
C 53 ; WX 556 ; N five ; B 4 -15 540 705 ;  
C 54 ; WX 556 ; N six ; B 36 -15 548 705 ;  
C 55 ; WX 556 ; N seven ; B 69 -15 561 705 ;  
C 56 ; WX 556 ; N eight ; B 6 -15 526 705 ;  
C 57 ; WX 556 ; N nine ; B 8 -15 520 705 ;  
C 58 ; WX 278 ; N colon ; B 17 -15 229 466 ;  
C 59 ; WX 278 ; N semicolon ; B -39 -165 229 466 ;  
C 60 ; WX 606 ; N less ; B 36 -8 542 514 ;  
C 61 ; WX 606 ; N equal ; B 50 117 556 389 ;  
C 62 ; WX 606 ; N greater ; B 64 -8 570 514 ;  
C 63 ; WX 444 ; N question ; B 102 -15 417 737 ;  
C 64 ; WX 747 ; N at ; B -2 -15 750 737 ;  
C 65 ; WX 704 ; N A ; B -87 0 668 737 ;  
C 66 ; WX 722 ; N B ; B -33 0 670 722 ;  
C 67 ; WX 722 ; N C ; B 40 -15 712 737 ;  
C 68 ; WX 778 ; N D ; B -33 0 738 722 ;  
C 69 ; WX 722 ; N E ; B -33 0 700 722 ;  
C 70 ; WX 667 ; N F ; B -33 0 700 722 ;  
C 71 ; WX 778 ; N G ; B 40 -15 763 737 ;  
C 72 ; WX 833 ; N H ; B -33 0 866 722 ;  
C 73 ; WX 407 ; N I ; B -33 0 435 722 ;  
C 74 ; WX 611 ; N J ; B -14 -15 651 722 ;  
C 75 ; WX 741 ; N K ; B -33 0 816 722 ;  
C 76 ; WX 667 ; N L ; B -33 0 627 722 ;  
C 77 ; WX 944 ; N M ; B -33 0 977 722 ;  
C 78 ; WX 815 ; N N ; B -51 -15 866 722 ;  
C 79 ; WX 778 ; N O ; B 40 -15 738 737 ;  
C 80 ; WX 667 ; N P ; B -33 0 667 722 ;  
C 81 ; WX 778 ; N Q ; B 40 -190 738 737 ;  
C 82 ; WX 741 ; N R ; B -45 -15 692 722 ;  
C 83 ; WX 667 ; N S ; B -6 -15 638 737 ;  
C 84 ; WX 685 ; N T ; B 40 0 725 722 ;  
C 85 ; WX 815 ; N U ; B 93 -15 867 722 ;  
C 86 ; WX 704 ; N V ; B 36 -10 779 722 ;  
C 87 ; WX 926 ; N W ; B 53 -10 978 722 ;  
C 88 ; WX 704 ; N X ; B -75 0 779 722 ;  
C 89 ; WX 685 ; N Y ; B 31 0 760 722 ;  
C 90 ; WX 667 ; N Z ; B -25 0 667 722 ;  
C 91 ; WX 333 ; N bracketleft ; B -55 -109 388 737 ;  
C 92 ; WX 606 ; N backslash ; B 132 -15 474 737 ;

C 93 ; WX 333 ; N bracketright ; B -77 -109 366 737 ;  
C 94 ; WX 606 ; N asciicircum ; B 89 325 517 690 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 204 ; N quoteleft ; B 39 463 229 737 ;  
C 97 ; WX 574 ; N a ; B 2 -15 524 466 ;  
C 98 ; WX 556 ; N b ; B 32 -15 488 737 ;  
C 99 ; WX 444 ; N c ; B 2 -15 394 466 ;  
C 100 ; WX 611 ; N d ; B 2 -15 585 737 ;  
C 101 ; WX 444 ; N e ; B -6 -15 388 466 ;  
C 102 ; WX 333 ; N f ; B -68 -205 470 737 ; L i f i ; L 1 f l ;  
C 103 ; WX 537 ; N g ; B -79 -205 523 497 ;  
C 104 ; WX 611 ; N h ; B 14 -15 562 737 ;  
C 105 ; WX 333 ; N i ; B 29 -15 282 715 ;  
C 106 ; WX 315 ; N j ; B -166 -205 318 715 ;  
C 107 ; WX 556 ; N k ; B 0 -15 497 737 ;  
C 108 ; WX 333 ; N l ; B 14 -15 292 737 ;  
C 109 ; WX 889 ; N m ; B 14 -15 840 466 ;  
C 110 ; WX 611 ; N n ; B 14 -15 562 466 ;  
C 111 ; WX 500 ; N o ; B 2 -15 450 466 ;  
C 112 ; WX 574 ; N p ; B -101 -205 506 466 ;  
C 113 ; WX 556 ; N q ; B 2 -205 500 466 ;  
C 114 ; WX 444 ; N r ; B 10 0 434 466 ;  
C 115 ; WX 444 ; N s ; B 2 -15 394 466 ;  
C 116 ; WX 352 ; N t ; B 24 -15 328 619 ;  
C 117 ; WX 611 ; N u ; B 44 -15 556 466 ;  
C 118 ; WX 519 ; N v ; B 31 -15 447 466 ;  
C 119 ; WX 778 ; N w ; B 31 -15 706 466 ;  
C 120 ; WX 500 ; N x ; B -33 -15 471 466 ;  
C 121 ; WX 500 ; N y ; B -83 -205 450 466 ;  
C 122 ; WX 463 ; N z ; B -33 -15 416 466 ;  
C 123 ; WX 333 ; N braceleft ; B 38 -109 394 737 ;  
C 124 ; WX 606 ; N bar ; B 267 -250 339 750 ;  
C 125 ; WX 333 ; N braceright ; B -87 -109 269 737 ;  
C 126 ; WX 606 ; N asciitilde ; B 72 184 534 322 ;  
C 161 ; WX 333 ; N exclamdown ; B -22 -205 264 547 ;  
C 162 ; WX 556 ; N cent ; B 62 -144 486 580 ;  
C 163 ; WX 556 ; N sterling ; B -13 -15 544 705 ;  
C 164 ; WX 167 ; N fraction ; B -134 -15 301 705 ;  
C 165 ; WX 556 ; N yen ; B 40 0 624 690 ;  
C 166 ; WX 556 ; N florin ; B -58 -205 569 737 ;  
C 167 ; WX 500 ; N section ; B -10 -147 480 737 ;  
C 168 ; WX 556 ; N currency ; B 26 93 530 597 ;  
C 169 ; WX 278 ; N quotesingle ; B 151 463 237 737 ;  
C 170 ; WX 389 ; N quotedblleft ; B 39 463 406 737 ;  
C 171 ; WX 426 ; N guillemotleft ; B -15 74 402 402 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 40 74 259 402 ;  
C 173 ; WX 333 ; N guilsinglright ; B 40 74 259 402 ;  
C 174 ; WX 611 ; N fi ; B -68 -205 555 737 ;

C 175 ; WX 611 ; N fl ; B -68 -205 587 737 ;  
C 177 ; WX 500 ; N endash ; B -27 208 487 268 ;  
C 178 ; WX 500 ; N dagger ; B 51 -147 506 737 ;  
C 179 ; WX 500 ; N daggerdbl ; B -54 -147 506 737 ;  
C 180 ; WX 278 ; N periodcentered ; B 71 238 207 374 ;  
C 182 ; WX 650 ; N paragraph ; B 48 -132 665 722 ;  
C 183 ; WX 606 ; N bullet ; B 122 180 484 542 ;  
C 184 ; WX 204 ; N quotesinglbase ; B -78 -165 112 109 ;  
C 185 ; WX 389 ; N quotedblbase ; B -78 -165 289 109 ;  
C 186 ; WX 389 ; N quotedblright ; B 39 463 406 737 ;  
C 187 ; WX 426 ; N guillemotright ; B -15 74 402 402 ;  
C 188 ; WX 1000 ; N ellipsis ; B 59 -15 849 109 ;  
C 189 ; WX 1000 ; N perthousand ; B 6 -15 994 705 ;  
C 191 ; WX 444 ; N questiondown ; B -3 -205 312 547 ;  
C 193 ; WX 333 ; N grave ; B 71 518 262 690 ;  
C 194 ; WX 333 ; N acute ; B 132 518 355 690 ;  
C 195 ; WX 333 ; N circumflex ; B 37 518 331 690 ;  
C 196 ; WX 333 ; N tilde ; B 52 547 383 649 ;  
C 197 ; WX 333 ; N macron ; B 52 560 363 610 ;  
C 198 ; WX 333 ; N breve ; B 69 518 370 677 ;  
C 199 ; WX 333 ; N dotaccent ; B 146 544 248 646 ;  
C 200 ; WX 333 ; N dieresis ; B 59 544 359 646 ;  
C 202 ; WX 333 ; N ring ; B 114 512 314 712 ;  
C 203 ; WX 333 ; N cedilla ; B 3 -215 215 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 32 518 455 690 ;  
C 206 ; WX 333 ; N ogonek ; B 68 -215 254 0 ;  
C 207 ; WX 333 ; N caron ; B 73 518 378 690 ;  
C 208 ; WX 1000 ; N emdash ; B -27 208 987 268 ;  
C 225 ; WX 870 ; N AE ; B -87 0 888 722 ;  
C 227 ; WX 422 ; N ordfeminine ; B 72 416 420 705 ;  
C 232 ; WX 667 ; N Lslash ; B -33 0 627 722 ;  
C 233 ; WX 778 ; N Oslash ; B 16 -68 748 780 ;  
C 234 ; WX 981 ; N OE ; B 40 0 975 722 ;  
C 235 ; WX 372 ; N ordmasculine ; B 66 416 370 705 ;  
C 241 ; WX 722 ; N ae ; B -18 -15 666 466 ;  
C 245 ; WX 333 ; N dotlessi ; B 29 -15 282 466 ;  
C 248 ; WX 333 ; N lslash ; B -25 -15 340 737 ;  
C 249 ; WX 500 ; N oslash ; B 2 -121 450 549 ;  
C 250 ; WX 778 ; N oe ; B 2 -15 722 466 ;  
C 251 ; WX 556 ; N germandbls ; B -76 -205 525 737 ;  
C -1 ; WX 444 ; N ecircumflex ; B -6 -15 388 690 ;  
C -1 ; WX 444 ; N edieresis ; B -6 -15 415 646 ;  
C -1 ; WX 574 ; N aacute ; B 2 -15 524 690 ;  
C -1 ; WX 747 ; N registered ; B -2 -15 750 737 ;  
C -1 ; WX 333 ; N icircumflex ; B 29 -15 331 690 ;  
C -1 ; WX 611 ; N udieresis ; B 44 -15 556 646 ;  
C -1 ; WX 500 ; N ograve ; B 2 -15 450 690 ;  
C -1 ; WX 611 ; N uacute ; B 44 -15 556 690 ;

C -1 ; WX 611 ; N ucircumflex ; B 44 -15 556 690 ;  
C -1 ; WX 704 ; N Aacute ; B -87 0 668 946 ;  
C -1 ; WX 333 ; N igrave ; B 29 -15 282 690 ;  
C -1 ; WX 407 ; N Icircumflex ; B -33 0 435 946 ;  
C -1 ; WX 444 ; N ccedilla ; B 2 -215 394 466 ;  
C -1 ; WX 574 ; N adieresis ; B 2 -15 524 646 ;  
C -1 ; WX 722 ; N Ecircumflex ; B -33 0 700 946 ;  
C -1 ; WX 444 ; N scaron ; B 2 -15 434 690 ;  
C -1 ; WX 574 ; N thorn ; B -101 -205 506 737 ;  
C -1 ; WX 950 ; N trademark ; B 32 318 968 722 ;  
C -1 ; WX 444 ; N egrave ; B -6 -15 388 690 ;  
C -1 ; WX 333 ; N threesuperior ; B 22 273 359 705 ;  
C -1 ; WX 463 ; N zcaron ; B -33 -15 443 690 ;  
C -1 ; WX 574 ; N atilde ; B 2 -15 524 649 ;  
C -1 ; WX 574 ; N aring ; B 2 -15 524 712 ;  
C -1 ; WX 500 ; N ocircumflex ; B 2 -15 450 690 ;  
C -1 ; WX 722 ; N Edieresis ; B -33 0 700 902 ;  
C -1 ; WX 834 ; N threequarters ; B 22 -15 782 705 ;  
C -1 ; WX 500 ; N ydieresis ; B -83 -205 450 646 ;  
C -1 ; WX 500 ; N yacute ; B -83 -205 450 690 ;  
C -1 ; WX 333 ; N iacute ; B 29 -15 355 690 ;  
C -1 ; WX 704 ; N Acircumflex ; B -87 0 668 946 ;  
C -1 ; WX 815 ; N Uacute ; B 93 -15 867 946 ;  
C -1 ; WX 444 ; N eacute ; B -6 -15 411 690 ;  
C -1 ; WX 778 ; N Ograve ; B 40 -15 738 946 ;  
C -1 ; WX 574 ; N agrave ; B 2 -15 524 690 ;  
C -1 ; WX 815 ; N Udieresis ; B 93 -15 867 902 ;  
C -1 ; WX 574 ; N acircumflex ; B 2 -15 524 690 ;  
C -1 ; WX 407 ; N Igrave ; B -33 0 435 946 ;  
C -1 ; WX 333 ; N twosuperior ; B 0 282 359 705 ;  
C -1 ; WX 815 ; N Ugrave ; B 93 -15 867 946 ;  
C -1 ; WX 834 ; N onequarter ; B 34 -15 782 705 ;  
C -1 ; WX 815 ; N Ucircumflex ; B 93 -15 867 946 ;  
C -1 ; WX 667 ; N Scaron ; B -6 -15 638 946 ;  
C -1 ; WX 407 ; N Idieresis ; B -33 0 456 902 ;  
C -1 ; WX 333 ; N idieresis ; B 29 -15 359 646 ;  
C -1 ; WX 722 ; N Egrave ; B -33 0 700 946 ;  
C -1 ; WX 778 ; N Oacute ; B 40 -15 738 946 ;  
C -1 ; WX 606 ; N divide ; B 50 -22 556 528 ;  
C -1 ; WX 704 ; N Atilde ; B -87 0 668 905 ;  
C -1 ; WX 704 ; N Aring ; B -87 0 668 958 ;  
C -1 ; WX 778 ; N Odieresis ; B 40 -15 738 902 ;  
C -1 ; WX 704 ; N Adieresis ; B -87 0 668 902 ;  
C -1 ; WX 815 ; N Ntilde ; B -51 -15 866 905 ;  
C -1 ; WX 667 ; N Zcaron ; B -25 0 667 946 ;  
C -1 ; WX 667 ; N Thorn ; B -33 0 627 722 ;  
C -1 ; WX 407 ; N Iacute ; B -33 0 452 946 ;  
C -1 ; WX 606 ; N plusminus ; B 50 0 556 506 ;

C -1 ; WX 606 ; N multiply ; B 74 24 532 482 ;  
C -1 ; WX 722 ; N Eacute ; B -33 0 700 946 ;  
C -1 ; WX 685 ; N Ydieresis ; B 31 0 760 902 ;  
C -1 ; WX 333 ; N onesuperior ; B 34 282 311 705 ;  
C -1 ; WX 611 ; N ugrave ; B 44 -15 556 690 ;  
C -1 ; WX 606 ; N logicalnot ; B 50 108 556 389 ;  
C -1 ; WX 611 ; N tilde ; B 14 -15 562 649 ;  
C -1 ; WX 778 ; N Otilde ; B 40 -15 738 905 ;  
C -1 ; WX 500 ; N otilde ; B 2 -15 467 649 ;  
C -1 ; WX 722 ; N Ccedilla ; B 40 -215 712 737 ;  
C -1 ; WX 704 ; N Agrave ; B -87 0 668 946 ;  
C -1 ; WX 834 ; N onehalf ; B 34 -15 776 705 ;  
C -1 ; WX 778 ; N Eth ; B -33 0 738 722 ;  
C -1 ; WX 400 ; N degree ; B 86 419 372 705 ;  
C -1 ; WX 685 ; N Yacute ; B 31 0 760 946 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 40 -15 738 946 ;  
C -1 ; WX 500 ; N oacute ; B 2 -15 450 690 ;  
C -1 ; WX 611 ; N mu ; B -60 -205 556 466 ;  
C -1 ; WX 606 ; N minus ; B 50 217 556 289 ;  
C -1 ; WX 500 ; N eth ; B 2 -15 450 737 ;  
C -1 ; WX 500 ; N odieresis ; B 2 -15 450 646 ;  
C -1 ; WX 747 ; N copyright ; B -2 -15 750 737 ;  
C -1 ; WX 606 ; N brokenbar ; B 267 -175 339 675 ;

EndCharMetrics

StartKernData

StartKernPairs 181

KPX A y -55

KPX A w -18

KPX A v -18

KPX A u -18

KPX A quoteright -125

KPX A quotedblright -125

KPX A Y -55

KPX A W -74

KPX A V -74

KPX A U -37

KPX A T -30

KPX A Q -18

KPX A O -18

KPX A G -18

KPX A C -18

KPX B period -50

KPX B comma -50

KPX C period -50

KPX C comma -50



KPX D period -50  
KPX D comma -50  
KPX D Y -18  
KPX D W -18  
KPX D V -18

KPX F r -55  
KPX F period -125  
KPX F o -55  
KPX F i -10  
KPX F e -55  
KPX F comma -125  
KPX F a -55  
KPX F A -35

KPX G period -50  
KPX G comma -50

KPX J u -18  
KPX J period -100  
KPX J o -37  
KPX J e -37  
KPX J comma -100  
KPX J a -37  
KPX J A -18

KPX L y -50  
KPX L quoteright -125  
KPX L quotedblright -125  
KPX L Y -100  
KPX L W -100  
KPX L V -100  
KPX L T -100

KPX N period -60  
KPX N comma -60

KPX O period -50  
KPX O comma -50  
KPX O Y -18  
KPX O X -18  
KPX O V -18  
KPX O T 18

KPX P period -125  
KPX P o -55  
KPX P e -55

KPX P comma -125

KPX P a -55

KPX P A -50

KPX Q period -20

KPX Q comma -20

KPX R Y -18

KPX R W -18

KPX R V -18

KPX R U -18

KPX S period -50

KPX S comma -50

KPX T y -50

KPX T w -50

KPX T u -50

KPX T semicolon -50

KPX T r -50

KPX T period -100

KPX T o -74

KPX T i -18

KPX T hyphen -100

KPX T h -25

KPX T e -74

KPX T comma -100

KPX T colon -50

KPX T a -74

KPX T O 18

KPX U period -100

KPX U comma -100

KPX U A -18

KPX V u -75

KPX V semicolon -75

KPX V period -100

KPX V o -75

KPX V i -50

KPX V hyphen -100

KPX V e -75

KPX V comma -100

KPX V colon -75

KPX V a -75

KPX V A -37

KPX W y -55

KPX W u -55  
KPX W semicolon -75  
KPX W period -100  
KPX W o -55  
KPX W i -20  
KPX W hyphen -75  
KPX W h -20  
KPX W e -55  
KPX W comma -100  
KPX W colon -75  
KPX W a -55  
KPX W A -55

KPX Y u -100  
KPX Y semicolon -75  
KPX Y period -100  
KPX Y o -100  
KPX Y i -25  
KPX Y hyphen -100  
KPX Y e -100  
KPX Y comma -100  
KPX Y colon -75  
KPX Y a -100  
KPX Y A -55

KPX b period -50  
KPX b comma -50  
KPX b b -10

KPX c period -50  
KPX c k -18  
KPX c h -18  
KPX c comma -50

KPX colon space -37

KPX comma space -37  
KPX comma quoteright -37  
KPX comma quotedblright -37

KPX e period -37  
KPX e comma -37

KPX f quoteright 75  
KPX f quotedblright 75  
KPX f period -75  
KPX f o -10  
KPX f comma -75

KPX g period -50  
KPX g comma -50

KPX l y -10

KPX o period -50  
KPX o comma -50

KPX p period -50  
KPX p comma -50

KPX period space -37  
KPX period quoteright -37  
KPX period quotedblright -37

KPX quotedblleft A -75

KPX quotedblright space -37

KPX quoteleft quoteleft -37  
KPX quoteleft A -75

KPX quoteright s -25  
KPX quoteright quoteright -37  
KPX quoteright d -37

KPX r semicolon -25  
KPX r s -10  
KPX r period -125  
KPX r k -18  
KPX r hyphen -75  
KPX r comma -125  
KPX r colon -25

KPX s period -50  
KPX s comma -50

KPX semicolon space -37

KPX space quoteleft -37  
KPX space quotedblleft -37  
KPX space Y -37  
KPX space W -37  
KPX space V -37  
KPX space T -37  
KPX space A -37

KPX v period -75

KPX v comma -75

KPX w period -75

KPX w comma -75

KPX y period -75

KPX y comma -75

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 246 256 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 246 256 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 231 256 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 246 256 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 216 246 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 231 256 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 255 256 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 255 256 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 255 256 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 255 256 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 97 256 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 97 256 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 97 256 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 97 256 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 301 256 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 283 256 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 283 256 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 283 256 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 283 256 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 283 256 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 227 256 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 301 256 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 301 256 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 301 256 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 301 256 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 256 256 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 236 256 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 227 256 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 121 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 121 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 121 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 121 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 121 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 121 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 56 0 ;

CC egrave 2 ; PCC e 0 0 ; PCC grave 56 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex 0 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis 0 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 84 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 84 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 56 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 139 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 84 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 65 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jul 2 22:26:30 1990

Comment UniqueID 31793

Comment VMusage 36031 46923

FontName Palatino-Bold

FullName Palatino Bold

FamilyName Palatino

Weight Bold

ItalicAngle 0

IsFixedPitch false

FontBBox -152 -266 1000 924

UnderlinePosition -100

UnderlineThickness 50

Version 001.005

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Palatino is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 681

XHeight 471

Ascender 720

Descender -258

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 278 ; N exclam ; B 63 -12 219 688 ;

C 34 ; WX 402 ; N quotedbl ; B 22 376 380 695 ;

C 35 ; WX 500 ; N numbersign ; B 4 0 496 673 ;

C 36 ; WX 500 ; N dollar ; B 28 -114 472 721 ;  
C 37 ; WX 889 ; N percent ; B 61 -9 828 714 ;  
C 38 ; WX 833 ; N ampersand ; B 52 -17 813 684 ;  
C 39 ; WX 278 ; N quoteright ; B 29 405 249 695 ;  
C 40 ; WX 333 ; N parenleft ; B 65 -104 305 723 ;  
C 41 ; WX 333 ; N parenright ; B 28 -104 268 723 ;  
C 42 ; WX 444 ; N asterisk ; B 44 332 399 695 ;  
C 43 ; WX 606 ; N plus ; B 51 0 555 505 ;  
C 44 ; WX 250 ; N comma ; B -6 -166 227 141 ;  
C 45 ; WX 333 ; N hyphen ; B 16 195 317 305 ;  
C 46 ; WX 250 ; N period ; B 47 -12 203 144 ;  
C 47 ; WX 296 ; N slash ; B -9 -17 305 720 ;  
C 48 ; WX 500 ; N zero ; B 33 -17 468 660 ;  
C 49 ; WX 500 ; N one ; B 35 -3 455 670 ;  
C 50 ; WX 500 ; N two ; B 25 -3 472 660 ;  
C 51 ; WX 500 ; N three ; B 22 -17 458 660 ;  
C 52 ; WX 500 ; N four ; B 12 -3 473 672 ;  
C 53 ; WX 500 ; N five ; B 42 -17 472 656 ;  
C 54 ; WX 500 ; N six ; B 37 -17 469 660 ;  
C 55 ; WX 500 ; N seven ; B 46 -3 493 656 ;  
C 56 ; WX 500 ; N eight ; B 34 -17 467 660 ;  
C 57 ; WX 500 ; N nine ; B 31 -17 463 660 ;  
C 58 ; WX 250 ; N colon ; B 47 -12 203 454 ;  
C 59 ; WX 250 ; N semicolon ; B -6 -166 227 454 ;  
C 60 ; WX 606 ; N less ; B 49 -15 558 519 ;  
C 61 ; WX 606 ; N equal ; B 51 114 555 396 ;  
C 62 ; WX 606 ; N greater ; B 49 -15 558 519 ;  
C 63 ; WX 444 ; N question ; B 43 -12 411 687 ;  
C 64 ; WX 747 ; N at ; B 42 -12 704 681 ;  
C 65 ; WX 778 ; N A ; B 24 -3 757 686 ;  
C 66 ; WX 667 ; N B ; B 39 -3 611 681 ;  
C 67 ; WX 722 ; N C ; B 44 -17 695 695 ;  
C 68 ; WX 833 ; N D ; B 35 -3 786 681 ;  
C 69 ; WX 611 ; N E ; B 39 -4 577 681 ;  
C 70 ; WX 556 ; N F ; B 28 -3 539 681 ;  
C 71 ; WX 833 ; N G ; B 47 -17 776 695 ;  
C 72 ; WX 833 ; N H ; B 36 -3 796 681 ;  
C 73 ; WX 389 ; N I ; B 39 -3 350 681 ;  
C 74 ; WX 389 ; N J ; B -11 -213 350 681 ;  
C 75 ; WX 778 ; N K ; B 39 -3 763 681 ;  
C 76 ; WX 611 ; N L ; B 39 -4 577 681 ;  
C 77 ; WX 1000 ; N M ; B 32 -10 968 681 ;  
C 78 ; WX 833 ; N N ; B 35 -16 798 681 ;  
C 79 ; WX 833 ; N O ; B 47 -17 787 695 ;  
C 80 ; WX 611 ; N P ; B 39 -3 594 681 ;  
C 81 ; WX 833 ; N Q ; B 47 -184 787 695 ;  
C 82 ; WX 722 ; N R ; B 39 -3 708 681 ;  
C 83 ; WX 611 ; N S ; B 57 -17 559 695 ;

C 84 ; WX 667 ; N T ; B 17 -3 650 681 ;  
C 85 ; WX 778 ; N U ; B 26 -17 760 681 ;  
C 86 ; WX 778 ; N V ; B 20 -3 763 681 ;  
C 87 ; WX 1000 ; N W ; B 17 -3 988 686 ;  
C 88 ; WX 667 ; N X ; B 17 -3 650 695 ;  
C 89 ; WX 667 ; N Y ; B 15 -3 660 695 ;  
C 90 ; WX 667 ; N Z ; B 24 -3 627 681 ;  
C 91 ; WX 333 ; N bracketleft ; B 73 -104 291 720 ;  
C 92 ; WX 606 ; N backslash ; B 72 0 534 720 ;  
C 93 ; WX 333 ; N bracketright ; B 42 -104 260 720 ;  
C 94 ; WX 606 ; N asciicircum ; B 52 275 554 678 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 29 405 249 695 ;  
C 97 ; WX 500 ; N a ; B 40 -17 478 471 ;  
C 98 ; WX 611 ; N b ; B 10 -17 556 720 ;  
C 99 ; WX 444 ; N c ; B 37 -17 414 471 ;  
C 100 ; WX 611 ; N d ; B 42 -17 577 720 ;  
C 101 ; WX 500 ; N e ; B 42 -17 461 471 ;  
C 102 ; WX 389 ; N f ; B 34 -3 381 720 ; L i f i ; L l f l ;  
C 103 ; WX 556 ; N g ; B 26 -266 535 471 ;  
C 104 ; WX 611 ; N h ; B 24 -3 587 720 ;  
C 105 ; WX 333 ; N i ; B 34 -3 298 706 ;  
C 106 ; WX 333 ; N j ; B 3 -266 241 706 ;  
C 107 ; WX 611 ; N k ; B 21 -3 597 720 ;  
C 108 ; WX 333 ; N l ; B 24 -3 296 720 ;  
C 109 ; WX 889 ; N m ; B 24 -3 864 471 ;  
C 110 ; WX 611 ; N n ; B 24 -3 587 471 ;  
C 111 ; WX 556 ; N o ; B 40 -17 517 471 ;  
C 112 ; WX 611 ; N p ; B 29 -258 567 471 ;  
C 113 ; WX 611 ; N q ; B 52 -258 589 471 ;  
C 114 ; WX 389 ; N r ; B 30 -3 389 471 ;  
C 115 ; WX 444 ; N s ; B 39 -17 405 471 ;  
C 116 ; WX 333 ; N t ; B 22 -17 324 632 ;  
C 117 ; WX 611 ; N u ; B 25 -17 583 471 ;  
C 118 ; WX 556 ; N v ; B 11 -3 545 459 ;  
C 119 ; WX 833 ; N w ; B 13 -3 820 471 ;  
C 120 ; WX 500 ; N x ; B 20 -3 483 471 ;  
C 121 ; WX 556 ; N y ; B 10 -266 546 459 ;  
C 122 ; WX 500 ; N z ; B 16 -3 464 459 ;  
C 123 ; WX 310 ; N braceleft ; B 5 -117 288 725 ;  
C 124 ; WX 606 ; N bar ; B 260 0 346 720 ;  
C 125 ; WX 310 ; N braceright ; B 22 -117 305 725 ;  
C 126 ; WX 606 ; N asciitilde ; B 51 155 555 342 ;  
C 161 ; WX 278 ; N exclamdown ; B 59 -227 215 471 ;  
C 162 ; WX 500 ; N cent ; B 73 -106 450 554 ;  
C 163 ; WX 500 ; N sterling ; B -2 -19 501 676 ;  
C 164 ; WX 167 ; N fraction ; B -152 0 320 660 ;  
C 165 ; WX 500 ; N yen ; B 17 -3 483 695 ;



C 166 ; WX 500 ; N florin ; B 11 -242 490 703 ;  
C 167 ; WX 500 ; N section ; B 30 -217 471 695 ;  
C 168 ; WX 500 ; N currency ; B 32 96 468 533 ;  
C 169 ; WX 227 ; N quotesingle ; B 45 376 181 695 ;  
C 170 ; WX 500 ; N quotedblleft ; B 34 405 466 695 ;  
C 171 ; WX 500 ; N guillemotleft ; B 36 44 463 438 ;  
C 172 ; WX 389 ; N guilsinglleft ; B 82 44 307 438 ;  
C 173 ; WX 389 ; N guilsinglright ; B 82 44 307 438 ;  
C 174 ; WX 611 ; N fi ; B 10 -3 595 720 ;  
C 175 ; WX 611 ; N fl ; B 17 -3 593 720 ;  
C 177 ; WX 500 ; N endash ; B 0 208 500 291 ;  
C 178 ; WX 500 ; N dagger ; B 29 -6 472 682 ;  
C 179 ; WX 500 ; N daggerdbl ; B 32 -245 468 682 ;  
C 180 ; WX 250 ; N periodcentered ; B 47 179 203 335 ;  
C 182 ; WX 641 ; N paragraph ; B 19 -161 599 683 ;  
C 183 ; WX 606 ; N bullet ; B 131 172 475 516 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 56 -160 276 130 ;  
C 185 ; WX 500 ; N quotedblbase ; B 34 -160 466 130 ;  
C 186 ; WX 500 ; N quotedblright ; B 34 405 466 695 ;  
C 187 ; WX 500 ; N guillemotright ; B 37 44 464 438 ;  
C 188 ; WX 1000 ; N ellipsis ; B 89 -12 911 144 ;  
C 189 ; WX 1000 ; N perthousand ; B 33 -9 982 724 ;  
C 191 ; WX 444 ; N questiondown ; B 33 -231 401 471 ;  
C 193 ; WX 333 ; N grave ; B 18 506 256 691 ;  
C 194 ; WX 333 ; N acute ; B 78 506 316 691 ;  
C 195 ; WX 333 ; N circumflex ; B -2 506 335 681 ;  
C 196 ; WX 333 ; N tilde ; B -16 535 349 661 ;  
C 197 ; WX 333 ; N macron ; B 1 538 332 609 ;  
C 198 ; WX 333 ; N breve ; B 15 506 318 669 ;  
C 199 ; WX 333 ; N dotaccent ; B 100 537 234 671 ;  
C 200 ; WX 333 ; N dieresis ; B -8 537 341 671 ;  
C 202 ; WX 333 ; N ring ; B 67 500 267 700 ;  
C 203 ; WX 333 ; N cedilla ; B 73 -225 300 -7 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -56 506 390 691 ;  
C 206 ; WX 333 ; N ogonek ; B 60 -246 274 -17 ;  
C 207 ; WX 333 ; N caron ; B -2 510 335 685 ;  
C 208 ; WX 1000 ; N emdash ; B 0 208 1000 291 ;  
C 225 ; WX 1000 ; N AE ; B 12 -4 954 681 ;  
C 227 ; WX 438 ; N ordfeminine ; B 77 367 361 660 ;  
C 232 ; WX 611 ; N Lslash ; B 16 -4 577 681 ;  
C 233 ; WX 833 ; N Oslash ; B 32 -20 808 698 ;  
C 234 ; WX 1000 ; N OE ; B 43 -17 985 695 ;  
C 235 ; WX 488 ; N ordmasculine ; B 89 367 399 660 ;  
C 241 ; WX 778 ; N ae ; B 46 -17 731 471 ;  
C 245 ; WX 333 ; N dotlessi ; B 34 -3 298 471 ;  
C 248 ; WX 333 ; N lslash ; B -4 -3 334 720 ;  
C 249 ; WX 556 ; N oslash ; B 23 -18 534 471 ;  
C 250 ; WX 833 ; N oe ; B 48 -17 799 471 ;

C 251 ; WX 611 ; N germandbls ; B 30 -17 565 720 ;  
C -1 ; WX 667 ; N Zcaron ; B 24 -3 627 909 ;  
C -1 ; WX 444 ; N ccedilla ; B 37 -225 414 471 ;  
C -1 ; WX 556 ; N ydieresis ; B 10 -266 546 691 ;  
C -1 ; WX 500 ; N atilde ; B 40 -17 478 673 ;  
C -1 ; WX 333 ; N icircumflex ; B -2 -3 335 701 ;  
C -1 ; WX 300 ; N threesuperior ; B 9 261 292 667 ;  
C -1 ; WX 500 ; N ecircumflex ; B 42 -17 461 701 ;  
C -1 ; WX 611 ; N thorn ; B 17 -258 563 720 ;  
C -1 ; WX 500 ; N egrave ; B 42 -17 461 711 ;  
C -1 ; WX 300 ; N twosuperior ; B 5 261 295 660 ;  
C -1 ; WX 500 ; N eacute ; B 42 -17 461 711 ;  
C -1 ; WX 556 ; N otilde ; B 40 -17 517 673 ;  
C -1 ; WX 778 ; N Aacute ; B 24 -3 757 915 ;  
C -1 ; WX 556 ; N ocircumflex ; B 40 -17 517 701 ;  
C -1 ; WX 556 ; N yacute ; B 10 -266 546 711 ;  
C -1 ; WX 611 ; N udieresis ; B 25 -17 583 691 ;  
C -1 ; WX 750 ; N threequarters ; B 15 -2 735 667 ;  
C -1 ; WX 500 ; N acircumflex ; B 40 -17 478 701 ;  
C -1 ; WX 833 ; N Eth ; B 10 -3 786 681 ;  
C -1 ; WX 500 ; N edieresis ; B 42 -17 461 691 ;  
C -1 ; WX 611 ; N ugrave ; B 25 -17 583 711 ;  
C -1 ; WX 998 ; N trademark ; B 38 274 961 678 ;  
C -1 ; WX 556 ; N ograve ; B 40 -17 517 711 ;  
C -1 ; WX 444 ; N scaron ; B 39 -17 405 693 ;  
C -1 ; WX 389 ; N Idieresis ; B 20 -3 369 895 ;  
C -1 ; WX 611 ; N uacute ; B 25 -17 583 711 ;  
C -1 ; WX 500 ; N agrave ; B 40 -17 478 711 ;  
C -1 ; WX 611 ; N ntilde ; B 24 -3 587 673 ;  
C -1 ; WX 500 ; N aring ; B 40 -17 478 700 ;  
C -1 ; WX 500 ; N zcaron ; B 16 -3 464 693 ;  
C -1 ; WX 389 ; N Icircumflex ; B 26 -3 363 905 ;  
C -1 ; WX 833 ; N Ntilde ; B 35 -16 798 885 ;  
C -1 ; WX 611 ; N ucircumflex ; B 25 -17 583 701 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 39 -4 577 905 ;  
C -1 ; WX 389 ; N Iacute ; B 39 -3 350 915 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -225 695 695 ;  
C -1 ; WX 833 ; N Odieresis ; B 47 -17 787 895 ;  
C -1 ; WX 611 ; N Scaron ; B 57 -17 559 909 ;  
C -1 ; WX 611 ; N Edieresis ; B 39 -4 577 895 ;  
C -1 ; WX 389 ; N Igrave ; B 39 -3 350 915 ;  
C -1 ; WX 500 ; N adieresis ; B 40 -17 478 691 ;  
C -1 ; WX 833 ; N Ograve ; B 47 -17 787 915 ;  
C -1 ; WX 611 ; N Egrave ; B 39 -4 577 915 ;  
C -1 ; WX 667 ; N Ydieresis ; B 15 -3 660 895 ;  
C -1 ; WX 747 ; N registered ; B 26 -17 720 695 ;  
C -1 ; WX 833 ; N Otilde ; B 47 -17 787 885 ;  
C -1 ; WX 750 ; N onequarter ; B 19 -2 735 665 ;

C -1 ; WX 778 ; N Ugrave ; B 26 -17 760 915 ;  
C -1 ; WX 778 ; N Ucircumflex ; B 26 -17 760 905 ;  
C -1 ; WX 611 ; N Thorn ; B 39 -3 574 681 ;  
C -1 ; WX 606 ; N divide ; B 51 0 555 510 ;  
C -1 ; WX 778 ; N Atilde ; B 24 -3 757 885 ;  
C -1 ; WX 778 ; N Uacute ; B 26 -17 760 915 ;  
C -1 ; WX 833 ; N Ocircumflex ; B 47 -17 787 905 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 114 555 396 ;  
C -1 ; WX 778 ; N Aring ; B 24 -3 757 924 ;  
C -1 ; WX 333 ; N idieresis ; B -8 -3 341 691 ;  
C -1 ; WX 333 ; N iacute ; B 34 -3 316 711 ;  
C -1 ; WX 500 ; N aacute ; B 40 -17 478 711 ;  
C -1 ; WX 606 ; N plusminus ; B 51 0 555 505 ;  
C -1 ; WX 606 ; N multiply ; B 72 21 534 483 ;  
C -1 ; WX 778 ; N Udieresis ; B 26 -17 760 895 ;  
C -1 ; WX 606 ; N minus ; B 51 212 555 298 ;  
C -1 ; WX 300 ; N onesuperior ; B 14 261 287 665 ;  
C -1 ; WX 611 ; N Eacute ; B 39 -4 577 915 ;  
C -1 ; WX 778 ; N Acircumflex ; B 24 -3 757 905 ;  
C -1 ; WX 747 ; N copyright ; B 26 -17 720 695 ;  
C -1 ; WX 778 ; N Agrave ; B 24 -3 757 915 ;  
C -1 ; WX 556 ; N odieresis ; B 40 -17 517 691 ;  
C -1 ; WX 556 ; N oacute ; B 40 -17 517 711 ;  
C -1 ; WX 400 ; N degree ; B 50 360 350 660 ;  
C -1 ; WX 333 ; N igrave ; B 18 -3 298 711 ;  
C -1 ; WX 611 ; N mu ; B 25 -225 583 471 ;  
C -1 ; WX 833 ; N Oacute ; B 47 -17 787 915 ;  
C -1 ; WX 556 ; N eth ; B 40 -17 517 720 ;  
C -1 ; WX 778 ; N Adieresis ; B 24 -3 757 895 ;  
C -1 ; WX 667 ; N Yacute ; B 15 -3 660 915 ;  
C -1 ; WX 606 ; N brokenbar ; B 260 0 346 720 ;  
C -1 ; WX 750 ; N onehalf ; B 9 -2 745 665 ;

EndCharMetrics

StartKernData

StartKernPairs 101

KPX A y -70

KPX A w -70

KPX A v -70

KPX A space -18

KPX A quoteright -92

KPX A Y -111

KPX A W -90

KPX A V -129

KPX A T -92

KPX F period -111

KPX F comma -111

KPX F A -55

KPX L y -74

KPX L space -18

KPX L quoteright -74

KPX L Y -92

KPX L W -92

KPX L V -92

KPX L T -74

KPX P period -129

KPX P comma -129

KPX P A -74

KPX R y -30

KPX R Y -55

KPX R W -37

KPX R V -74

KPX R T -55

KPX T y -90

KPX T w -90

KPX T u -129

KPX T semicolon -74

KPX T s -111

KPX T r -111

KPX T period -92

KPX T o -111

KPX T i -55

KPX T hyphen -92

KPX T e -111

KPX T comma -92

KPX T colon -74

KPX T c -129

KPX T a -111

KPX T A -92

KPX V y -90

KPX V u -92

KPX V semicolon -74

KPX V r -111

KPX V period -129

KPX V o -111

KPX V i -55

KPX V hyphen -92

KPX V e -111

KPX V comma -129

KPX V colon -74

KPX V a -111  
KPX V A -129

KPX W y -74  
KPX W u -74  
KPX W semicolon -37  
KPX W r -74  
KPX W period -37  
KPX W o -74  
KPX W i -37  
KPX W hyphen -37  
KPX W e -74  
KPX W comma -92  
KPX W colon -37  
KPX W a -74  
KPX W A -90

KPX Y v -74  
KPX Y u -74  
KPX Y semicolon -55  
KPX Y q -92  
KPX Y period -74  
KPX Y p -74  
KPX Y o -74  
KPX Y i -55  
KPX Y hyphen -74  
KPX Y e -74  
KPX Y comma -74  
KPX Y colon -55  
KPX Y a -74  
KPX Y A -55

KPX f quoteright 37  
KPX f f -18

KPX one one -37

KPX quoteleft quoteleft -55

KPX quoteright t -18  
KPX quoteright space -55  
KPX quoteright s -55  
KPX quoteright quoteright -55

KPX r quoteright 55  
KPX r period -55  
KPX r hyphen -18  
KPX r comma -55

KPX v period -111  
KPX v comma -111

KPX w period -92  
KPX w comma -92

KPX y period -92  
KPX y comma -92

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 223 224 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 211 224 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 223 224 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 215 224 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 223 224 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 223 224 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 224 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 224 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 224 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 224 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 224 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 224 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 224 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 224 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 250 224 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 224 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 224 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 224 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 224 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 250 224 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 224 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 235 224 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 235 224 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 224 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 223 224 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 211 224 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 199 224 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 224 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 20 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 84 20 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 84 20 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 84 20 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 84 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 12 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;

CC eacute 2 ; PCC e 0 0 ; PCC acute 84 20 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 96 20 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 20 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 84 20 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 20 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex 0 20 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis 0 20 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 20 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 12 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 20 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 112 20 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 20 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 20 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 112 12 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 56 8 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 151 20 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 20 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 20 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 131 20 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 144 20 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 124 20 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 8 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu Mar 15 12:08:57 1990  
Comment UniqueID 28407  
Comment VMusage 7614 43068  
FontName Helvetica-Narrow-BoldOblique  
FullName Helvetica Narrow Bold Oblique  
FamilyName Helvetica  
Weight Bold  
ItalicAngle -12  
IsFixedPitch false  
FontBBox -143 -228 913 962  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.007  
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a  
trademark of Linotype AG and/or its subsidiaries.  
EncodingScheme AdobeStandardEncoding  
CapHeight 718  
XHeight 532  
Ascender 718  
Descender -207  
StartCharMetrics 228  
C 32 ; WX 228 ; N space ; B 0 0 0 0 ;

C 33 ; WX 273 ; N exclam ; B 77 0 325 718 ;  
C 34 ; WX 389 ; N quotedbl ; B 158 447 433 718 ;  
C 35 ; WX 456 ; N numbersign ; B 49 0 528 698 ;  
C 36 ; WX 456 ; N dollar ; B 55 -115 510 775 ;  
C 37 ; WX 729 ; N percent ; B 112 -19 739 710 ;  
C 38 ; WX 592 ; N ampersand ; B 73 -19 600 718 ;  
C 39 ; WX 228 ; N quoteright ; B 137 445 297 718 ;  
C 40 ; WX 273 ; N parenleft ; B 62 -208 385 734 ;  
C 41 ; WX 273 ; N parenright ; B -21 -208 302 734 ;  
C 42 ; WX 319 ; N asterisk ; B 120 387 394 718 ;  
C 43 ; WX 479 ; N plus ; B 67 0 500 506 ;  
C 44 ; WX 228 ; N comma ; B 23 -168 201 146 ;  
C 45 ; WX 273 ; N hyphen ; B 60 215 311 345 ;  
C 46 ; WX 228 ; N period ; B 52 0 201 146 ;  
C 47 ; WX 228 ; N slash ; B -30 -19 383 737 ;  
C 48 ; WX 456 ; N zero ; B 71 -19 506 710 ;  
C 49 ; WX 456 ; N one ; B 142 0 434 710 ;  
C 50 ; WX 456 ; N two ; B 21 0 508 710 ;  
C 51 ; WX 456 ; N three ; B 54 -19 499 710 ;  
C 52 ; WX 456 ; N four ; B 50 0 490 710 ;  
C 53 ; WX 456 ; N five ; B 53 -19 522 698 ;  
C 54 ; WX 456 ; N six ; B 70 -19 507 710 ;  
C 55 ; WX 456 ; N seven ; B 102 0 555 698 ;  
C 56 ; WX 456 ; N eight ; B 57 -19 505 710 ;  
C 57 ; WX 456 ; N nine ; B 64 -19 504 710 ;  
C 58 ; WX 273 ; N colon ; B 75 0 288 512 ;  
C 59 ; WX 273 ; N semicolon ; B 46 -168 288 512 ;  
C 60 ; WX 479 ; N less ; B 67 -8 537 514 ;  
C 61 ; WX 479 ; N equal ; B 48 87 519 419 ;  
C 62 ; WX 479 ; N greater ; B 30 -8 500 514 ;  
C 63 ; WX 501 ; N question ; B 135 0 550 727 ;  
C 64 ; WX 800 ; N at ; B 152 -19 782 737 ;  
C 65 ; WX 592 ; N A ; B 16 0 576 718 ;  
C 66 ; WX 592 ; N B ; B 62 0 626 718 ;  
C 67 ; WX 592 ; N C ; B 88 -19 647 737 ;  
C 68 ; WX 592 ; N D ; B 62 0 637 718 ;  
C 69 ; WX 547 ; N E ; B 62 0 620 718 ;  
C 70 ; WX 501 ; N F ; B 62 0 606 718 ;  
C 71 ; WX 638 ; N G ; B 89 -19 670 737 ;  
C 72 ; WX 592 ; N H ; B 58 0 659 718 ;  
C 73 ; WX 228 ; N I ; B 52 0 301 718 ;  
C 74 ; WX 456 ; N J ; B 49 -18 522 718 ;  
C 75 ; WX 592 ; N K ; B 71 0 703 718 ;  
C 76 ; WX 501 ; N L ; B 62 0 501 718 ;  
C 77 ; WX 683 ; N M ; B 57 0 752 718 ;  
C 78 ; WX 592 ; N N ; B 57 0 661 718 ;  
C 79 ; WX 638 ; N O ; B 88 -19 675 737 ;  
C 80 ; WX 547 ; N P ; B 62 0 605 718 ;



C 81 ; WX 638 ; N Q ; B 88 -52 675 737 ;  
C 82 ; WX 592 ; N R ; B 62 0 638 718 ;  
C 83 ; WX 547 ; N S ; B 66 -19 588 737 ;  
C 84 ; WX 501 ; N T ; B 114 0 615 718 ;  
C 85 ; WX 592 ; N U ; B 96 -19 659 718 ;  
C 86 ; WX 547 ; N V ; B 141 0 656 718 ;  
C 87 ; WX 774 ; N W ; B 138 0 887 718 ;  
C 88 ; WX 547 ; N X ; B 11 0 648 718 ;  
C 89 ; WX 547 ; N Y ; B 137 0 661 718 ;  
C 90 ; WX 501 ; N Z ; B 20 0 604 718 ;  
C 91 ; WX 273 ; N bracketleft ; B 17 -196 379 722 ;  
C 92 ; WX 228 ; N backslash ; B 101 -19 252 737 ;  
C 93 ; WX 273 ; N bracketright ; B -14 -196 347 722 ;  
C 94 ; WX 479 ; N asciicircum ; B 107 323 484 698 ;  
C 95 ; WX 456 ; N underscore ; B -22 -125 443 -75 ;  
C 96 ; WX 228 ; N quoteleft ; B 136 454 296 727 ;  
C 97 ; WX 456 ; N a ; B 45 -14 478 546 ;  
C 98 ; WX 501 ; N b ; B 50 -14 529 718 ;  
C 99 ; WX 456 ; N c ; B 65 -14 491 546 ;  
C 100 ; WX 501 ; N d ; B 67 -14 577 718 ;  
C 101 ; WX 456 ; N e ; B 58 -14 486 546 ;  
C 102 ; WX 273 ; N f ; B 71 0 385 727 ; L i fi ; L l fl ;  
C 103 ; WX 501 ; N g ; B 31 -217 546 546 ;  
C 104 ; WX 501 ; N h ; B 53 0 516 718 ;  
C 105 ; WX 228 ; N i ; B 57 0 298 725 ;  
C 106 ; WX 228 ; N j ; B -35 -214 298 725 ;  
C 107 ; WX 456 ; N k ; B 57 0 549 718 ;  
C 108 ; WX 228 ; N l ; B 57 0 297 718 ;  
C 109 ; WX 729 ; N m ; B 52 0 746 546 ;  
C 110 ; WX 501 ; N n ; B 53 0 516 546 ;  
C 111 ; WX 501 ; N o ; B 67 -14 527 546 ;  
C 112 ; WX 501 ; N p ; B 15 -207 529 546 ;  
C 113 ; WX 501 ; N q ; B 66 -207 545 546 ;  
C 114 ; WX 319 ; N r ; B 52 0 401 546 ;  
C 115 ; WX 456 ; N s ; B 52 -14 479 546 ;  
C 116 ; WX 273 ; N t ; B 82 -6 346 676 ;  
C 117 ; WX 501 ; N u ; B 80 -14 540 532 ;  
C 118 ; WX 456 ; N v ; B 103 0 538 532 ;  
C 119 ; WX 638 ; N w ; B 101 0 723 532 ;  
C 120 ; WX 456 ; N x ; B 12 0 531 532 ;  
C 121 ; WX 456 ; N y ; B 34 -214 535 532 ;  
C 122 ; WX 410 ; N z ; B 16 0 478 532 ;  
C 123 ; WX 319 ; N braceleft ; B 77 -196 425 722 ;  
C 124 ; WX 230 ; N bar ; B 66 -19 289 737 ;  
C 125 ; WX 319 ; N braceright ; B -14 -196 333 722 ;  
C 126 ; WX 479 ; N asciitilde ; B 94 163 473 343 ;  
C 161 ; WX 273 ; N exclamdown ; B 41 -186 290 532 ;  
C 162 ; WX 456 ; N cent ; B 65 -118 491 628 ;

C 163 ; WX 456 ; N sterling ; B 41 -16 520 718 ;  
C 164 ; WX 137 ; N fraction ; B -143 -19 399 710 ;  
C 165 ; WX 456 ; N yen ; B 49 0 585 698 ;  
C 166 ; WX 456 ; N florin ; B -41 -210 548 737 ;  
C 167 ; WX 456 ; N section ; B 50 -184 491 727 ;  
C 168 ; WX 456 ; N currency ; B 22 76 558 636 ;  
C 169 ; WX 195 ; N quotesingle ; B 135 447 263 718 ;  
C 170 ; WX 410 ; N quotedblleft ; B 132 454 482 727 ;  
C 171 ; WX 456 ; N guillemotleft ; B 111 76 468 484 ;  
C 172 ; WX 273 ; N guilsinglleft ; B 106 76 289 484 ;  
C 173 ; WX 273 ; N guilsinglright ; B 81 76 264 484 ;  
C 174 ; WX 501 ; N fi ; B 71 0 571 727 ;  
C 175 ; WX 501 ; N fl ; B 71 0 570 727 ;  
C 177 ; WX 456 ; N endash ; B 40 227 514 333 ;  
C 178 ; WX 456 ; N dagger ; B 97 -171 513 718 ;  
C 179 ; WX 456 ; N daggerdbl ; B 38 -171 515 718 ;  
C 180 ; WX 228 ; N periodcentered ; B 90 172 226 334 ;  
C 182 ; WX 456 ; N paragraph ; B 80 -191 564 700 ;  
C 183 ; WX 287 ; N bullet ; B 68 194 345 524 ;  
C 184 ; WX 228 ; N quotesinglbase ; B 34 -146 194 127 ;  
C 185 ; WX 410 ; N quotedblbase ; B 29 -146 380 127 ;  
C 186 ; WX 410 ; N quotedblright ; B 132 445 483 718 ;  
C 187 ; WX 456 ; N guillemotright ; B 85 76 443 484 ;  
C 188 ; WX 820 ; N ellipsis ; B 75 0 770 146 ;  
C 189 ; WX 820 ; N perthousand ; B 62 -19 851 710 ;  
C 191 ; WX 501 ; N questiondown ; B 44 -195 459 532 ;  
C 193 ; WX 273 ; N grave ; B 112 604 290 750 ;  
C 194 ; WX 273 ; N acute ; B 194 604 423 750 ;  
C 195 ; WX 273 ; N circumflex ; B 97 604 387 750 ;  
C 196 ; WX 273 ; N tilde ; B 92 610 415 737 ;  
C 197 ; WX 273 ; N macron ; B 100 604 396 678 ;  
C 198 ; WX 273 ; N breve ; B 128 604 405 750 ;  
C 199 ; WX 273 ; N dotaccent ; B 192 614 316 729 ;  
C 200 ; WX 273 ; N dieresis ; B 112 614 395 729 ;  
C 202 ; WX 273 ; N ring ; B 164 568 344 776 ;  
C 203 ; WX 273 ; N cedilla ; B -30 -228 180 0 ;  
C 205 ; WX 273 ; N hungarumlaut ; B 113 604 529 750 ;  
C 206 ; WX 273 ; N ogonek ; B 33 -228 216 0 ;  
C 207 ; WX 273 ; N caron ; B 123 604 412 750 ;  
C 208 ; WX 820 ; N emdash ; B 40 227 878 333 ;  
C 225 ; WX 820 ; N AE ; B 4 0 902 718 ;  
C 227 ; WX 303 ; N ordfeminine ; B 75 276 381 737 ;  
C 232 ; WX 501 ; N Lslash ; B 28 0 501 718 ;  
C 233 ; WX 638 ; N Oslash ; B 29 -27 733 745 ;  
C 234 ; WX 820 ; N OE ; B 81 -19 913 737 ;  
C 235 ; WX 299 ; N ordmasculine ; B 75 276 398 737 ;  
C 241 ; WX 729 ; N ae ; B 46 -14 757 546 ;  
C 245 ; WX 228 ; N dotlessi ; B 57 0 264 532 ;

C 248 ; WX 228 ; N Slash ; B 33 0 334 718 ;  
C 249 ; WX 501 ; N slash ; B 18 -29 575 560 ;  
C 250 ; WX 774 ; N oe ; B 67 -14 801 546 ;  
C 251 ; WX 501 ; N germandbls ; B 57 -14 539 731 ;  
C -1 ; WX 501 ; N Zcaron ; B 20 0 604 936 ;  
C -1 ; WX 456 ; N ccedilla ; B 65 -228 491 546 ;  
C -1 ; WX 456 ; N ydieresis ; B 34 -214 535 729 ;  
C -1 ; WX 456 ; N tilde ; B 45 -14 507 737 ;  
C -1 ; WX 228 ; N icircumflex ; B 57 0 364 750 ;  
C -1 ; WX 273 ; N threesuperior ; B 75 271 361 710 ;  
C -1 ; WX 456 ; N ecircumflex ; B 58 -14 486 750 ;  
C -1 ; WX 501 ; N thorn ; B 15 -208 529 718 ;  
C -1 ; WX 456 ; N egrave ; B 58 -14 486 750 ;  
C -1 ; WX 273 ; N twosuperior ; B 57 283 368 710 ;  
C -1 ; WX 456 ; N eacute ; B 58 -14 514 750 ;  
C -1 ; WX 501 ; N otilde ; B 67 -14 529 737 ;  
C -1 ; WX 592 ; N Aacute ; B 16 0 615 936 ;  
C -1 ; WX 501 ; N ocircumflex ; B 67 -14 527 750 ;  
C -1 ; WX 456 ; N yacute ; B 34 -214 535 750 ;  
C -1 ; WX 501 ; N udieresis ; B 80 -14 540 729 ;  
C -1 ; WX 684 ; N threequarters ; B 82 -19 688 710 ;  
C -1 ; WX 456 ; N acircumflex ; B 45 -14 478 750 ;  
C -1 ; WX 592 ; N Eth ; B 51 0 637 718 ;  
C -1 ; WX 456 ; N edieresis ; B 58 -14 487 729 ;  
C -1 ; WX 501 ; N ugrave ; B 80 -14 540 750 ;  
C -1 ; WX 820 ; N trademark ; B 146 306 909 718 ;  
C -1 ; WX 501 ; N ograve ; B 67 -14 527 750 ;  
C -1 ; WX 456 ; N scaron ; B 52 -14 504 750 ;  
C -1 ; WX 228 ; N Idieresis ; B 52 0 405 915 ;  
C -1 ; WX 501 ; N uacute ; B 80 -14 540 750 ;  
C -1 ; WX 456 ; N agrave ; B 45 -14 478 750 ;  
C -1 ; WX 501 ; N tilde ; B 53 0 529 737 ;  
C -1 ; WX 456 ; N aring ; B 45 -14 478 776 ;  
C -1 ; WX 410 ; N zcaron ; B 16 0 481 750 ;  
C -1 ; WX 228 ; N Icircumflex ; B 52 0 397 936 ;  
C -1 ; WX 592 ; N Ntilde ; B 57 0 661 923 ;  
C -1 ; WX 501 ; N ucircumflex ; B 80 -14 540 750 ;  
C -1 ; WX 547 ; N Ecircumflex ; B 62 0 620 936 ;  
C -1 ; WX 228 ; N Iacute ; B 52 0 433 936 ;  
C -1 ; WX 592 ; N Ccedilla ; B 88 -228 647 737 ;  
C -1 ; WX 638 ; N Odieresis ; B 88 -19 675 915 ;  
C -1 ; WX 547 ; N Scaron ; B 66 -19 588 936 ;  
C -1 ; WX 547 ; N Edieresis ; B 62 0 620 915 ;  
C -1 ; WX 228 ; N Igrave ; B 52 0 301 936 ;  
C -1 ; WX 456 ; N adieresis ; B 45 -14 487 729 ;  
C -1 ; WX 638 ; N Ograve ; B 88 -19 675 936 ;  
C -1 ; WX 547 ; N Egrave ; B 62 0 620 936 ;  
C -1 ; WX 547 ; N Ydieresis ; B 137 0 661 915 ;

C -1 ; WX 604 ; N registered ; B 45 -19 684 737 ;  
C -1 ; WX 638 ; N Otilde ; B 88 -19 675 923 ;  
C -1 ; WX 684 ; N onequarter ; B 108 -19 661 710 ;  
C -1 ; WX 592 ; N Ugrave ; B 96 -19 659 936 ;  
C -1 ; WX 592 ; N Ucircumflex ; B 96 -19 659 936 ;  
C -1 ; WX 547 ; N Thorn ; B 62 0 588 718 ;  
C -1 ; WX 479 ; N divide ; B 67 -42 500 548 ;  
C -1 ; WX 592 ; N Atilde ; B 16 0 608 923 ;  
C -1 ; WX 592 ; N Uacute ; B 96 -19 659 936 ;  
C -1 ; WX 638 ; N Ocircumflex ; B 88 -19 675 936 ;  
C -1 ; WX 479 ; N logicalnot ; B 86 108 519 419 ;  
C -1 ; WX 592 ; N Aring ; B 16 0 576 962 ;  
C -1 ; WX 228 ; N idieresis ; B 57 0 373 729 ;  
C -1 ; WX 228 ; N iacute ; B 57 0 400 750 ;  
C -1 ; WX 456 ; N aacute ; B 45 -14 514 750 ;  
C -1 ; WX 479 ; N plusminus ; B 33 0 512 506 ;  
C -1 ; WX 479 ; N multiply ; B 47 1 520 505 ;  
C -1 ; WX 592 ; N Udieresis ; B 96 -19 659 915 ;  
C -1 ; WX 479 ; N minus ; B 67 197 500 309 ;  
C -1 ; WX 273 ; N onesuperior ; B 121 283 318 710 ;  
C -1 ; WX 547 ; N Eacute ; B 62 0 620 936 ;  
C -1 ; WX 592 ; N Acircumflex ; B 16 0 579 936 ;  
C -1 ; WX 604 ; N copyright ; B 46 -19 685 737 ;  
C -1 ; WX 592 ; N Agrave ; B 16 0 576 936 ;  
C -1 ; WX 501 ; N odieresis ; B 67 -14 527 729 ;  
C -1 ; WX 501 ; N oacute ; B 67 -14 537 750 ;  
C -1 ; WX 328 ; N degree ; B 143 426 383 712 ;  
C -1 ; WX 228 ; N igrave ; B 57 0 268 750 ;  
C -1 ; WX 501 ; N mu ; B 18 -207 540 532 ;  
C -1 ; WX 638 ; N Oacute ; B 88 -19 675 936 ;  
C -1 ; WX 501 ; N eth ; B 67 -14 549 737 ;  
C -1 ; WX 592 ; N Adieresis ; B 16 0 588 915 ;  
C -1 ; WX 547 ; N Yacute ; B 137 0 661 936 ;  
C -1 ; WX 230 ; N brokenbar ; B 66 -19 289 737 ;  
C -1 ; WX 684 ; N onehalf ; B 108 -19 704 710 ;

EndCharMetrics

StartKernData

StartKernPairs 209

KPX A y -30

KPX A w -30

KPX A v -40

KPX A u -30

KPX A Y -110

KPX A W -60

KPX A V -80

KPX A U -50

KPX A T -90

KPX A Q -40  
KPX A O -40  
KPX A G -50  
KPX A C -40

KPX B U -10  
KPX B A -30

KPX D period -30  
KPX D comma -30  
KPX D Y -70  
KPX D W -40  
KPX D V -40  
KPX D A -40

KPX F period -100  
KPX F comma -100  
KPX F a -20  
KPX F A -80

KPX J u -20  
KPX J period -20  
KPX J comma -20  
KPX J A -20

KPX K y -40  
KPX K u -30  
KPX K o -35  
KPX K e -15  
KPX K O -30

KPX L y -30  
KPX L quoteright -140  
KPX L quotedblright -140  
KPX L Y -120  
KPX L W -80  
KPX L V -110  
KPX L T -90

KPX O period -40  
KPX O comma -40  
KPX O Y -70  
KPX O X -50  
KPX O W -50  
KPX O V -50  
KPX O T -40  
KPX O A -50

KPX P period -120  
KPX P o -40  
KPX P e -30  
KPX P comma -120  
KPX P a -30  
KPX P A -100

KPX Q period 20  
KPX Q comma 20  
KPX Q U -10

KPX R Y -50  
KPX R W -40  
KPX R V -50  
KPX R U -20  
KPX R T -20  
KPX R O -20

KPX T y -60  
KPX T w -60  
KPX T u -90  
KPX T semicolon -40  
KPX T r -80  
KPX T period -80  
KPX T o -80  
KPX T hyphen -120  
KPX T e -60  
KPX T comma -80  
KPX T colon -40  
KPX T a -80  
KPX T O -40  
KPX T A -90

KPX U period -30  
KPX U comma -30  
KPX U A -50

KPX V u -60  
KPX V semicolon -40  
KPX V period -120  
KPX V o -90  
KPX V hyphen -80  
KPX V e -50  
KPX V comma -120  
KPX V colon -40  
KPX V a -60  
KPX V O -50  
KPX V G -50

KPX V A -80

KPX W y -20

KPX W u -45

KPX W semicolon -10

KPX W period -80

KPX W o -60

KPX W hyphen -40

KPX W e -35

KPX W comma -80

KPX W colon -10

KPX W a -40

KPX W O -20

KPX W A -60

KPX Y u -100

KPX Y semicolon -50

KPX Y period -100

KPX Y o -100

KPX Y e -80

KPX Y comma -100

KPX Y colon -50

KPX Y a -90

KPX Y O -70

KPX Y A -110

KPX a y -20

KPX a w -15

KPX a v -15

KPX a g -10

KPX b y -20

KPX b v -20

KPX b u -20

KPX b l -10

KPX c y -10

KPX c l -20

KPX c k -20

KPX c h -10

KPX colon space -40

KPX comma space -40

KPX comma quoteright -120

KPX comma quotedblright -120

KPX d y -15

KPX d w -15

KPX d v -15

KPX d d -10

KPX e y -15

KPX e x -15

KPX e w -15

KPX e v -15

KPX e period 20

KPX e comma 10

KPX f quoteright 30

KPX f quotedblright 30

KPX f period -10

KPX f o -20

KPX f e -10

KPX f comma -10

KPX g g -10

KPX g e 10

KPX h y -20

KPX k o -15

KPX l y -15

KPX l w -15

KPX m y -30

KPX m u -20

KPX n y -20

KPX n v -40

KPX n u -10

KPX o y -20

KPX o x -30

KPX o w -15

KPX o v -20

KPX p y -15

KPX period space -40

KPX period quoteright -120

KPX period quotedblright -120

KPX quotedblright space -80



KPX quoteleft quoteleft -46

KPX quoteright v -20

KPX quoteright space -80

KPX quoteright s -60

KPX quoteright r -40

KPX quoteright quoteright -46

KPX quoteright l -20

KPX quoteright d -80

KPX r y 10

KPX r v 10

KPX r t 20

KPX r s -15

KPX r q -20

KPX r period -60

KPX r o -20

KPX r hyphen -20

KPX r g -15

KPX r d -20

KPX r comma -60

KPX r c -20

KPX s w -15

KPX semicolon space -40

KPX space quoteleft -60

KPX space quotedbleft -80

KPX space Y -120

KPX space W -80

KPX space V -80

KPX space T -100

KPX v period -80

KPX v o -30

KPX v comma -80

KPX v a -20

KPX w period -40

KPX w o -20

KPX w comma -40

KPX x e -10

KPX y period -80

KPX y o -25

KPX y e -10

KPX y comma -80

KPX y a -30

KPX z e 10

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 192 186 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 192 186 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 192 186 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 192 186 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 192 186 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 192 186 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 169 186 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 169 186 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 169 186 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 169 186 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 10 186 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 10 186 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 10 186 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 10 186 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 192 186 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 215 186 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 215 186 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 215 186 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 215 186 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 186 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 169 186 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 192 186 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 192 186 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 192 186 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 192 186 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 169 186 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 169 186 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 146 186 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 92 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 108 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;

CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -22 0 ;  
 CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -22 0 ;  
 CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -22 0 ;  
 CC ntilde 2 ; PCC n 0 0 ; PCC tilde 114 0 ;  
 CC oacute 2 ; PCC o 0 0 ; PCC acute 114 0 ;  
 CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 114 0 ;  
 CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 114 0 ;  
 CC ograve 2 ; PCC o 0 0 ; PCC grave 114 0 ;  
 CC otilde 2 ; PCC o 0 0 ; PCC tilde 114 0 ;  
 CC scaron 2 ; PCC s 0 0 ; PCC caron 92 0 ;  
 CC uacute 2 ; PCC u 0 0 ; PCC acute 114 0 ;  
 CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 114 0 ;  
 CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 114 0 ;  
 CC ugrave 2 ; PCC u 0 0 ; PCC grave 114 0 ;  
 CC yacute 2 ; PCC y 0 0 ; PCC acute 92 0 ;  
 CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 92 0 ;  
 CC zcaron 2 ; PCC z 0 0 ; PCC caron 69 0 ;  
 EndComposites  
 EndFontMetrics  
 StartFontMetrics 2.0  
 Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
 Comment Creation Date: Fri Jan 17 15:08:52 1992  
 Comment UniqueID 37705  
 Comment VMusage 33078 39970  
 FontName Utopia-Bold  
 FullName Utopia Bold  
 FamilyName Utopia  
 Weight Bold  
 ItalicAngle 0  
 IsFixedPitch false  
 FontBBox -155 -250 1249 916  
 UnderlinePosition -100  
 UnderlineThickness 50  
 Version 001.002  
 Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved. Utopia is a registered  
 trademark of Adobe Systems Incorporated.  
 EncodingScheme AdobeStandardEncoding  
 CapHeight 692  
 XHeight 490  
 Ascender 742  
 Descender -230  
 StartCharMetrics 228  
 C 32 ; WX 210 ; N space ; B 0 0 0 0 ;  
 C 33 ; WX 278 ; N exclam ; B 47 -12 231 707 ;  
 C 34 ; WX 473 ; N quotedbl ; B 71 407 402 707 ;  
 C 35 ; WX 560 ; N numbersign ; B 14 0 547 668 ;  
 C 36 ; WX 560 ; N dollar ; B 38 -104 524 748 ;  
 C 37 ; WX 887 ; N percent ; B 40 -31 847 701 ;

C 38 ; WX 748 ; N ampersand ; B 45 -12 734 680 ;  
C 39 ; WX 252 ; N quoteright ; B 40 387 212 707 ;  
C 40 ; WX 365 ; N parenleft ; B 99 -135 344 699 ;  
C 41 ; WX 365 ; N parenright ; B 21 -135 266 699 ;  
C 42 ; WX 442 ; N asterisk ; B 40 315 402 707 ;  
C 43 ; WX 600 ; N plus ; B 58 0 542 490 ;  
C 44 ; WX 280 ; N comma ; B 40 -167 226 180 ;  
C 45 ; WX 392 ; N hyphen ; B 65 203 328 298 ;  
C 46 ; WX 280 ; N period ; B 48 -12 232 174 ;  
C 47 ; WX 378 ; N slash ; B 34 -15 344 707 ;  
C 48 ; WX 560 ; N zero ; B 31 -12 530 680 ;  
C 49 ; WX 560 ; N one ; B 102 0 459 680 ;  
C 50 ; WX 560 ; N two ; B 30 0 539 680 ;  
C 51 ; WX 560 ; N three ; B 27 -12 519 680 ;  
C 52 ; WX 560 ; N four ; B 19 0 533 668 ;  
C 53 ; WX 560 ; N five ; B 43 -12 519 668 ;  
C 54 ; WX 560 ; N six ; B 30 -12 537 680 ;  
C 55 ; WX 560 ; N seven ; B 34 -12 530 668 ;  
C 56 ; WX 560 ; N eight ; B 27 -12 533 680 ;  
C 57 ; WX 560 ; N nine ; B 34 -12 523 680 ;  
C 58 ; WX 280 ; N colon ; B 48 -12 232 490 ;  
C 59 ; WX 280 ; N semicolon ; B 40 -167 232 490 ;  
C 60 ; WX 600 ; N less ; B 61 5 539 493 ;  
C 61 ; WX 600 ; N equal ; B 58 103 542 397 ;  
C 62 ; WX 600 ; N greater ; B 61 5 539 493 ;  
C 63 ; WX 456 ; N question ; B 20 -12 433 707 ;  
C 64 ; WX 833 ; N at ; B 45 -15 797 707 ;  
C 65 ; WX 644 ; N A ; B -28 0 663 692 ;  
C 66 ; WX 683 ; N B ; B 33 0 645 692 ;  
C 67 ; WX 689 ; N C ; B 42 -15 654 707 ;  
C 68 ; WX 777 ; N D ; B 33 0 735 692 ;  
C 69 ; WX 629 ; N E ; B 33 0 604 692 ;  
C 70 ; WX 593 ; N F ; B 37 0 568 692 ;  
C 71 ; WX 726 ; N G ; B 42 -15 709 707 ;  
C 72 ; WX 807 ; N H ; B 33 0 774 692 ;  
C 73 ; WX 384 ; N I ; B 33 0 351 692 ;  
C 74 ; WX 386 ; N J ; B 6 -114 361 692 ;  
C 75 ; WX 707 ; N K ; B 33 -6 719 692 ;  
C 76 ; WX 585 ; N L ; B 33 0 584 692 ;  
C 77 ; WX 918 ; N M ; B 23 0 885 692 ;  
C 78 ; WX 739 ; N N ; B 25 0 719 692 ;  
C 79 ; WX 768 ; N O ; B 42 -15 726 707 ;  
C 80 ; WX 650 ; N P ; B 33 0 623 692 ;  
C 81 ; WX 768 ; N Q ; B 42 -193 726 707 ;  
C 82 ; WX 684 ; N R ; B 33 0 686 692 ;  
C 83 ; WX 561 ; N S ; B 42 -15 533 707 ;  
C 84 ; WX 624 ; N T ; B 15 0 609 692 ;  
C 85 ; WX 786 ; N U ; B 29 -15 757 692 ;

C 86 ; WX 645 ; N V ; B -16 0 679 692 ;  
C 87 ; WX 933 ; N W ; B -10 0 960 692 ;  
C 88 ; WX 634 ; N X ; B -19 0 671 692 ;  
C 89 ; WX 617 ; N Y ; B -12 0 655 692 ;  
C 90 ; WX 614 ; N Z ; B 0 0 606 692 ;  
C 91 ; WX 335 ; N bracketleft ; B 123 -128 308 692 ;  
C 92 ; WX 379 ; N backslash ; B 34 -15 345 707 ;  
C 93 ; WX 335 ; N bracketright ; B 27 -128 212 692 ;  
C 94 ; WX 600 ; N asciicircum ; B 56 215 544 668 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 252 ; N quoteleft ; B 40 399 212 719 ;  
C 97 ; WX 544 ; N a ; B 41 -12 561 502 ;  
C 98 ; WX 605 ; N b ; B 15 -12 571 742 ;  
C 99 ; WX 494 ; N c ; B 34 -12 484 502 ;  
C 100 ; WX 605 ; N d ; B 34 -12 596 742 ;  
C 101 ; WX 519 ; N e ; B 34 -12 505 502 ;  
C 102 ; WX 342 ; N f ; B 27 0 421 742 ; L i fi ; L l fl ;  
C 103 ; WX 533 ; N g ; B 25 -242 546 512 ;  
C 104 ; WX 631 ; N h ; B 19 0 622 742 ;  
C 105 ; WX 316 ; N i ; B 26 0 307 720 ;  
C 106 ; WX 316 ; N j ; B -12 -232 260 720 ;  
C 107 ; WX 582 ; N k ; B 19 0 595 742 ;  
C 108 ; WX 309 ; N l ; B 19 0 300 742 ;  
C 109 ; WX 948 ; N m ; B 26 0 939 502 ;  
C 110 ; WX 638 ; N n ; B 26 0 629 502 ;  
C 111 ; WX 585 ; N o ; B 34 -12 551 502 ;  
C 112 ; WX 615 ; N p ; B 19 -230 581 502 ;  
C 113 ; WX 597 ; N q ; B 34 -230 596 502 ;  
C 114 ; WX 440 ; N r ; B 26 0 442 502 ;  
C 115 ; WX 446 ; N s ; B 38 -12 425 502 ;  
C 116 ; WX 370 ; N t ; B 32 -12 373 616 ;  
C 117 ; WX 629 ; N u ; B 23 -12 620 502 ;  
C 118 ; WX 520 ; N v ; B -8 0 546 490 ;  
C 119 ; WX 774 ; N w ; B -10 0 802 490 ;  
C 120 ; WX 522 ; N x ; B -15 0 550 490 ;  
C 121 ; WX 524 ; N y ; B -12 -242 557 490 ;  
C 122 ; WX 483 ; N z ; B -1 0 480 490 ;  
C 123 ; WX 365 ; N braceleft ; B 74 -128 325 692 ;  
C 124 ; WX 284 ; N bar ; B 94 -250 190 750 ;  
C 125 ; WX 365 ; N braceright ; B 40 -128 291 692 ;  
C 126 ; WX 600 ; N asciitilde ; B 50 158 551 339 ;  
C 161 ; WX 278 ; N exclamdown ; B 47 -217 231 502 ;  
C 162 ; WX 560 ; N cent ; B 39 -15 546 678 ;  
C 163 ; WX 560 ; N sterling ; B 21 0 555 679 ;  
C 164 ; WX 100 ; N fraction ; B -155 -27 255 695 ;  
C 165 ; WX 560 ; N yen ; B 3 0 562 668 ;  
C 166 ; WX 560 ; N florin ; B -40 -135 562 691 ;  
C 167 ; WX 566 ; N section ; B 35 -115 531 707 ;

C 168 ; WX 560 ; N currency ; B 21 73 539 596 ;  
C 169 ; WX 252 ; N quotesingle ; B 57 407 196 707 ;  
C 170 ; WX 473 ; N quotedblleft ; B 40 399 433 719 ;  
C 171 ; WX 487 ; N guillemotleft ; B 40 37 452 464 ;  
C 172 ; WX 287 ; N guilsinglleft ; B 40 37 252 464 ;  
C 173 ; WX 287 ; N guilsinglright ; B 35 37 247 464 ;  
C 174 ; WX 639 ; N fi ; B 27 0 630 742 ;  
C 175 ; WX 639 ; N fl ; B 27 0 630 742 ;  
C 177 ; WX 500 ; N endash ; B 0 209 500 292 ;  
C 178 ; WX 510 ; N dagger ; B 35 -125 475 707 ;  
C 179 ; WX 486 ; N daggerdbl ; B 35 -119 451 707 ;  
C 180 ; WX 280 ; N periodcentered ; B 48 156 232 342 ;  
C 182 ; WX 552 ; N paragraph ; B 35 -101 527 692 ;  
C 183 ; WX 455 ; N bullet ; B 50 174 405 529 ;  
C 184 ; WX 252 ; N quotesinglbase ; B 40 -153 212 167 ;  
C 185 ; WX 473 ; N quotedblbase ; B 40 -153 433 167 ;  
C 186 ; WX 473 ; N quotedblright ; B 40 387 433 707 ;  
C 187 ; WX 487 ; N guillemotright ; B 35 37 447 464 ;  
C 188 ; WX 1000 ; N ellipsis ; B 75 -12 925 174 ;  
C 189 ; WX 1289 ; N perthousand ; B 40 -31 1249 701 ;  
C 191 ; WX 456 ; N questiondown ; B 23 -217 436 502 ;  
C 193 ; WX 430 ; N grave ; B 40 511 312 740 ;  
C 194 ; WX 430 ; N acute ; B 119 511 391 740 ;  
C 195 ; WX 430 ; N circumflex ; B 28 520 402 747 ;  
C 196 ; WX 430 ; N tilde ; B 2 553 427 706 ;  
C 197 ; WX 430 ; N macron ; B 60 587 371 674 ;  
C 198 ; WX 430 ; N breve ; B 56 556 375 716 ;  
C 199 ; WX 430 ; N dotaccent ; B 136 561 294 710 ;  
C 200 ; WX 430 ; N dieresis ; B 16 561 414 710 ;  
C 202 ; WX 430 ; N ring ; B 96 540 334 762 ;  
C 203 ; WX 430 ; N cedilla ; B 136 -246 335 0 ;  
C 205 ; WX 430 ; N hungarumlaut ; B 64 521 446 751 ;  
C 206 ; WX 430 ; N ogonek ; B 105 -246 325 0 ;  
C 207 ; WX 430 ; N caron ; B 28 520 402 747 ;  
C 208 ; WX 1000 ; N emdash ; B 0 209 1000 292 ;  
C 225 ; WX 879 ; N AE ; B -77 0 854 692 ;  
C 227 ; WX 405 ; N ordfeminine ; B 28 265 395 590 ;  
C 232 ; WX 591 ; N Lslash ; B 30 0 590 692 ;  
C 233 ; WX 768 ; N Oslash ; B 42 -61 726 747 ;  
C 234 ; WX 1049 ; N OE ; B 42 0 1024 692 ;  
C 235 ; WX 427 ; N ordmasculine ; B 28 265 399 590 ;  
C 241 ; WX 806 ; N ae ; B 41 -12 792 502 ;  
C 245 ; WX 316 ; N dotlessi ; B 26 0 307 502 ;  
C 248 ; WX 321 ; N lslash ; B 16 0 332 742 ;  
C 249 ; WX 585 ; N oslash ; B 34 -51 551 535 ;  
C 250 ; WX 866 ; N oe ; B 34 -12 852 502 ;  
C 251 ; WX 662 ; N germandbls ; B 29 -12 647 742 ;  
C -1 ; WX 402 ; N onesuperior ; B 71 272 324 680 ;

C -1 ; WX 600 ; N minus ; B 58 210 542 290 ;  
C -1 ; WX 396 ; N degree ; B 35 360 361 680 ;  
C -1 ; WX 585 ; N oacute ; B 34 -12 551 755 ;  
C -1 ; WX 768 ; N Odieresis ; B 42 -15 726 881 ;  
C -1 ; WX 585 ; N odieresis ; B 34 -12 551 710 ;  
C -1 ; WX 629 ; N Eacute ; B 33 0 604 904 ;  
C -1 ; WX 629 ; N ucircumflex ; B 23 -12 620 747 ;  
C -1 ; WX 900 ; N onequarter ; B 73 -27 814 695 ;  
C -1 ; WX 600 ; N logicalnot ; B 58 95 542 397 ;  
C -1 ; WX 629 ; N Ecircumflex ; B 33 0 604 905 ;  
C -1 ; WX 900 ; N onehalf ; B 53 -27 849 695 ;  
C -1 ; WX 768 ; N Otilde ; B 42 -15 726 876 ;  
C -1 ; WX 629 ; N uacute ; B 23 -12 620 740 ;  
C -1 ; WX 519 ; N eacute ; B 34 -12 505 755 ;  
C -1 ; WX 316 ; N iacute ; B 26 0 369 740 ;  
C -1 ; WX 629 ; N Egrave ; B 33 0 604 904 ;  
C -1 ; WX 316 ; N icircumflex ; B -28 0 346 747 ;  
C -1 ; WX 629 ; N mu ; B 23 -242 620 502 ;  
C -1 ; WX 284 ; N brokenbar ; B 94 -175 190 675 ;  
C -1 ; WX 609 ; N thorn ; B 13 -230 575 722 ;  
C -1 ; WX 644 ; N Aring ; B -28 0 663 872 ;  
C -1 ; WX 524 ; N yacute ; B -12 -242 557 740 ;  
C -1 ; WX 617 ; N Ydieresis ; B -12 0 655 881 ;  
C -1 ; WX 1090 ; N trademark ; B 38 277 1028 692 ;  
C -1 ; WX 800 ; N registered ; B 36 -15 764 707 ;  
C -1 ; WX 585 ; N ocircumflex ; B 34 -12 551 747 ;  
C -1 ; WX 644 ; N Agrave ; B -28 0 663 904 ;  
C -1 ; WX 561 ; N Scaron ; B 42 -15 533 916 ;  
C -1 ; WX 786 ; N Ugrave ; B 29 -15 757 904 ;  
C -1 ; WX 629 ; N Edieresis ; B 33 0 604 881 ;  
C -1 ; WX 786 ; N Uacute ; B 29 -15 757 904 ;  
C -1 ; WX 585 ; N otilde ; B 34 -12 551 706 ;  
C -1 ; WX 638 ; N ntilde ; B 26 0 629 706 ;  
C -1 ; WX 524 ; N ydieresis ; B -12 -242 557 710 ;  
C -1 ; WX 644 ; N Aacute ; B -28 0 663 904 ;  
C -1 ; WX 585 ; N eth ; B 34 -12 551 742 ;  
C -1 ; WX 544 ; N acircumflex ; B 41 -12 561 747 ;  
C -1 ; WX 544 ; N aring ; B 41 -12 561 762 ;  
C -1 ; WX 768 ; N Ograve ; B 42 -15 726 904 ;  
C -1 ; WX 494 ; N ccedilla ; B 34 -246 484 502 ;  
C -1 ; WX 600 ; N multiply ; B 75 20 525 476 ;  
C -1 ; WX 600 ; N divide ; B 58 6 542 494 ;  
C -1 ; WX 402 ; N twosuperior ; B 29 272 382 680 ;  
C -1 ; WX 739 ; N Ntilde ; B 25 0 719 876 ;  
C -1 ; WX 629 ; N ugrave ; B 23 -12 620 740 ;  
C -1 ; WX 786 ; N Ucircumflex ; B 29 -15 757 905 ;  
C -1 ; WX 644 ; N Atilde ; B -28 0 663 876 ;  
C -1 ; WX 483 ; N zcaron ; B -1 0 480 747 ;

C -1 ; WX 316 ; N idieresis ; B -37 0 361 710 ;  
C -1 ; WX 644 ; N Acircumflex ; B -28 0 663 905 ;  
C -1 ; WX 384 ; N Icircumflex ; B 4 0 380 905 ;  
C -1 ; WX 617 ; N Yacute ; B -12 0 655 904 ;  
C -1 ; WX 768 ; N Oacute ; B 42 -15 726 904 ;  
C -1 ; WX 644 ; N Adieresis ; B -28 0 663 881 ;  
C -1 ; WX 614 ; N Zcaron ; B 0 0 606 916 ;  
C -1 ; WX 544 ; N agrave ; B 41 -12 561 755 ;  
C -1 ; WX 402 ; N threesuperior ; B 30 265 368 680 ;  
C -1 ; WX 585 ; N ograve ; B 34 -12 551 755 ;  
C -1 ; WX 900 ; N threequarters ; B 40 -27 842 695 ;  
C -1 ; WX 783 ; N Eth ; B 35 0 741 692 ;  
C -1 ; WX 600 ; N plusminus ; B 58 0 542 549 ;  
C -1 ; WX 629 ; N udieresis ; B 23 -12 620 710 ;  
C -1 ; WX 519 ; N edieresis ; B 34 -12 505 710 ;  
C -1 ; WX 544 ; N aacute ; B 41 -12 561 755 ;  
C -1 ; WX 316 ; N igrave ; B -47 0 307 740 ;  
C -1 ; WX 384 ; N Idieresis ; B -13 0 397 881 ;  
C -1 ; WX 544 ; N adieresis ; B 41 -12 561 710 ;  
C -1 ; WX 384 ; N Iacute ; B 33 0 423 904 ;  
C -1 ; WX 800 ; N copyright ; B 36 -15 764 707 ;  
C -1 ; WX 384 ; N Igrave ; B -31 0 351 904 ;  
C -1 ; WX 689 ; N Ccedilla ; B 42 -246 654 707 ;  
C -1 ; WX 446 ; N scaron ; B 38 -12 425 747 ;  
C -1 ; WX 519 ; N egrave ; B 34 -12 505 755 ;  
C -1 ; WX 768 ; N Ocircumflex ; B 42 -15 726 905 ;  
C -1 ; WX 640 ; N Thorn ; B 33 0 622 692 ;  
C -1 ; WX 544 ; N atilde ; B 41 -12 561 706 ;  
C -1 ; WX 786 ; N Udieresis ; B 29 -15 757 881 ;  
C -1 ; WX 519 ; N ecircumflex ; B 34 -12 505 747 ;  
EndCharMetrics  
StartKernData  
StartKernPairs 685

KPX A z 25  
KPX A y -40  
KPX A w -42  
KPX A v -48  
KPX A u -18  
KPX A t -12  
KPX A s 6  
KPX A quoteright -110  
KPX A quotedblright -80  
KPX A q -6  
KPX A p -18  
KPX A o -12  
KPX A e -6  
KPX A d -12



KPX A c -12  
KPX A b -12  
KPX A a -6  
KPX A Y -64  
KPX A X -18  
KPX A W -54  
KPX A V -70  
KPX A U -40  
KPX A T -58  
KPX A Q -18  
KPX A O -18  
KPX A G -18  
KPX A C -18

KPX B y -18  
KPX B u -12  
KPX B r -12  
KPX B o -6  
KPX B l -15  
KPX B k -15  
KPX B i -12  
KPX B h -15  
KPX B e -6  
KPX B b -10  
KPX B a -12  
KPX B W -20  
KPX B V -20  
KPX B U -25  
KPX B T -20

KPX C z -5  
KPX C y -24  
KPX C u -18  
KPX C r -6  
KPX C o -12  
KPX C e -12  
KPX C a -16  
KPX C Q -6  
KPX C O -6  
KPX C G -6  
KPX C C -6

KPX D u -12  
KPX D r -12  
KPX D period -40  
KPX D o -5  
KPX D i -12  
KPX D h -18

KPX D e -5  
KPX D comma -40  
KPX D a -15  
KPX D Y -60  
KPX D W -40  
KPX D V -40

KPX E y -30  
KPX E w -24  
KPX E v -24  
KPX E u -12  
KPX E t -18  
KPX E s -12  
KPX E r -4  
KPX E q -6  
KPX E period 10  
KPX E p -18  
KPX E o -6  
KPX E n -4  
KPX E m -4  
KPX E j -6  
KPX E i -6  
KPX E g -6  
KPX E e -6  
KPX E d -6  
KPX E comma 10  
KPX E c -6  
KPX E b -5  
KPX E a -4  
KPX E Y -6  
KPX E W -6  
KPX E V -6

KPX F y -18  
KPX F u -12  
KPX F r -36  
KPX F quoteright 20  
KPX F quotedblright 20  
KPX F period -150  
KPX F o -36  
KPX F l -12  
KPX F i -22  
KPX F e -36  
KPX F comma -150  
KPX F a -48  
KPX F A -60

KPX G y -12

KPX G u -12  
KPX G r -18  
KPX G quotedblright -20  
KPX G n -18  
KPX G l -6  
KPX G i -12  
KPX G h -12  
KPX G a -12

KPX H y -24  
KPX H u -26  
KPX H o -30  
KPX H i -18  
KPX H e -30  
KPX H a -25

KPX I z -6  
KPX I y -6  
KPX I x -6  
KPX I w -18  
KPX I v -24  
KPX I u -26  
KPX I t -24  
KPX I s -18  
KPX I r -12  
KPX I p -26  
KPX I o -30  
KPX I n -18  
KPX I m -18  
KPX I l -6  
KPX I k -6  
KPX I h -6  
KPX I g -6  
KPX I f -6  
KPX I e -30  
KPX I d -30  
KPX I c -30  
KPX I b -6  
KPX I a -24

KPX J y -20  
KPX J u -36  
KPX J o -35  
KPX J i -20  
KPX J e -35  
KPX J bracketright 15  
KPX J braceright 15  
KPX J a -36

KPX K y -70  
KPX K w -60  
KPX K v -80  
KPX K u -42  
KPX K o -30  
KPX K l 10  
KPX K i 6  
KPX K h 10  
KPX K e -18  
KPX K a -6  
KPX K Q -36  
KPX K O -36  
KPX K G -36  
KPX K C -36  
KPX K A 20

KPX L y -52  
KPX L w -58  
KPX L u -12  
KPX L quoteright -130  
KPX L quotedblright -130  
KPX L l 6  
KPX L j -6  
KPX L Y -70  
KPX L W -78  
KPX L V -95  
KPX L U -32  
KPX L T -80  
KPX L Q -12  
KPX L O -12  
KPX L G -12  
KPX L C -12  
KPX L A 30

KPX M y -24  
KPX M u -36  
KPX M o -30  
KPX M n -6  
KPX M j -12  
KPX M i -12  
KPX M e -30  
KPX M d -30  
KPX M c -30  
KPX M a -25

KPX N y -24  
KPX N u -30

KPX N o -30  
KPX N i -24  
KPX N e -30  
KPX N a -30

KPX O z -6  
KPX O u -6  
KPX O t -6  
KPX O s -6  
KPX O r -10  
KPX O q -6  
KPX O period -40  
KPX O p -10  
KPX O o -6  
KPX O n -10  
KPX O m -10  
KPX O l -15  
KPX O k -15  
KPX O i -6  
KPX O h -15  
KPX O g -6  
KPX O e -6  
KPX O d -6  
KPX O comma -40  
KPX O c -6  
KPX O b -15  
KPX O a -12  
KPX O Y -50  
KPX O X -40  
KPX O W -35  
KPX O V -35  
KPX O T -40  
KPX O A -30

KPX P y 10  
KPX P u -18  
KPX P t -6  
KPX P s -30  
KPX P r -12  
KPX P quoteright 20  
KPX P quotedblright 20  
KPX P period -200  
KPX P o -36  
KPX P n -12  
KPX P l -15  
KPX P i -6  
KPX P hyphen -30  
KPX P h -15

KPX P e -36  
KPX P comma -200  
KPX P a -36  
KPX P I -20  
KPX P H -20  
KPX P E -20  
KPX P A -85

KPX Q u -6  
KPX Q a -18  
KPX Q Y -50  
KPX Q X -40  
KPX Q W -35  
KPX Q V -35  
KPX Q U -25  
KPX Q T -40  
KPX Q A -30

KPX R y -20  
KPX R u -12  
KPX R t -25  
KPX R quoteright -10  
KPX R quotedblright -10  
KPX R o -12  
KPX R e -18  
KPX R a -6  
KPX R Y -32  
KPX R X 20  
KPX R W -18  
KPX R V -26  
KPX R U -30  
KPX R T -20  
KPX R Q -10  
KPX R O -10  
KPX R G -10  
KPX R C -10

KPX S y -35  
KPX S w -30  
KPX S v -40  
KPX S u -24  
KPX S t -24  
KPX S r -10  
KPX S quoteright -15  
KPX S quotedblright -15  
KPX S p -24  
KPX S n -24  
KPX S m -24

KPX S l -18  
KPX S k -24  
KPX S j -30  
KPX S i -12  
KPX S h -12  
KPX S a -18

KPX T z -64  
KPX T y -74  
KPX T w -72  
KPX T u -74  
KPX T semicolon -50  
KPX T s -82  
KPX T r -74  
KPX T quoteright 24  
KPX T quotedblright 24  
KPX T period -95  
KPX T parenright 40  
KPX T o -90  
KPX T m -72  
KPX T i -28  
KPX T hyphen -110  
KPX T endash -40  
KPX T emdash -60  
KPX T e -80  
KPX T comma -95  
KPX T bracketright 40  
KPX T braceright 30  
KPX T a -90  
KPX T Y 12  
KPX T X 10  
KPX T W 15  
KPX T V 6  
KPX T T 30  
KPX T S -12  
KPX T Q -25  
KPX T O -25  
KPX T G -25  
KPX T C -25  
KPX T A -52

KPX U z -35  
KPX U y -30  
KPX U x -30  
KPX U v -30  
KPX U t -36  
KPX U s -45  
KPX U r -50

KPX U p -50  
KPX U n -50  
KPX U m -50  
KPX U l -12  
KPX U k -12  
KPX U i -22  
KPX U h -6  
KPX U g -40  
KPX U f -20  
KPX U d -40  
KPX U c -40  
KPX U b -12  
KPX U a -50  
KPX U A -50

KPX V y -36  
KPX V u -50  
KPX V semicolon -45  
KPX V r -75  
KPX V quoteright 50  
KPX V quotedblright 36  
KPX V period -135  
KPX V parenright 80  
KPX V o -70  
KPX V i 20  
KPX V hyphen -90  
KPX V emdash -20  
KPX V e -70  
KPX V comma -135  
KPX V colon -45  
KPX V bracketright 80  
KPX V braceright 80  
KPX V a -70  
KPX V Q -20  
KPX V O -20  
KPX V G -20  
KPX V C -20  
KPX V A -60

KPX W y -50  
KPX W u -46  
KPX W t -30  
KPX W semicolon -40  
KPX W r -50  
KPX W quoteright 40  
KPX W quotedblright 24  
KPX W period -100  
KPX W parenright 80



KPX W o -60  
KPX W m -50  
KPX W i 5  
KPX W hyphen -70  
KPX W h 20  
KPX W e -60  
KPX W d -60  
KPX W comma -100  
KPX W colon -40  
KPX W bracketright 80  
KPX W braceright 70  
KPX W a -75  
KPX W T 30  
KPX W Q -20  
KPX W O -20  
KPX W G -20  
KPX W C -20  
KPX W A -58

KPX X y -40  
KPX X u -24  
KPX X quoteright 15  
KPX X e -6  
KPX X a -6  
KPX X Q -24  
KPX X O -30  
KPX X G -30  
KPX X C -30  
KPX X A 20

KPX Y v -50  
KPX Y u -65  
KPX Y t -46  
KPX Y semicolon -37  
KPX Y quoteright 50  
KPX Y quotedblright 36  
KPX Y q -100  
KPX Y period -90  
KPX Y parenright 60  
KPX Y o -90  
KPX Y l 25  
KPX Y i 15  
KPX Y hyphen -100  
KPX Y endash -30  
KPX Y emdash -50  
KPX Y e -90  
KPX Y d -90  
KPX Y comma -90

KPX Y colon -60  
KPX Y bracketright 80  
KPX Y braceright 64  
KPX Y a -80  
KPX Y Y 12  
KPX Y X 12  
KPX Y W 12  
KPX Y V 12  
KPX Y T 30  
KPX Y Q -40  
KPX Y O -40  
KPX Y G -40  
KPX Y C -40  
KPX Y A -55

KPX Z y -36  
KPX Z w -36  
KPX Z u -6  
KPX Z o -12  
KPX Z i -12  
KPX Z e -6  
KPX Z a -6  
KPX Z Q -18  
KPX Z O -18  
KPX Z G -18  
KPX Z C -18  
KPX Z A 25

KPX a quoteright -45  
KPX a quotedblright -40

KPX b y -15  
KPX b w -20  
KPX b v -20  
KPX b quoteright -45  
KPX b quotedblright -40  
KPX b period -10  
KPX b comma -10

KPX braceleft Y 64  
KPX braceleft W 64  
KPX braceleft V 64  
KPX braceleft T 25  
KPX braceleft J 50

KPX bracketleft Y 64  
KPX bracketleft W 64  
KPX bracketleft V 64

KPX bracketleft T 35

KPX bracketleft J 60

KPX c quoteright -5

KPX colon space -20

KPX comma space -40

KPX comma quoteright -100

KPX comma quotedblright -100

KPX d quoteright -24

KPX d quotedblright -24

KPX e z -4

KPX e quoteright -25

KPX e quotedblright -20

KPX f quotesingle 70

KPX f quoteright 68

KPX f quotedblright 68

KPX f period -10

KPX f parenright 110

KPX f comma -20

KPX f bracketright 100

KPX f braceright 80

KPX g y 20

KPX g p 20

KPX g f 20

KPX g comma 10

KPX h quoteright -60

KPX h quotedblright -60

KPX i quoteright -20

KPX i quotedblright -20

KPX j quoteright -20

KPX j quotedblright -20

KPX j period -10

KPX j comma -10

KPX k quoteright -30

KPX k quotedblright -30

KPX l quoteright -24

KPX l quotedblright -24

KPX m quoteright -60  
KPX m quotedblright -60

KPX n quoteright -60  
KPX n quotedblright -60

KPX o z -12  
KPX o y -25  
KPX o x -18  
KPX o w -30  
KPX o v -30  
KPX o quoteright -45  
KPX o quotedblright -40  
KPX o period -10  
KPX o comma -10

KPX p z -10  
KPX p y -15  
KPX p w -15  
KPX p quoteright -45  
KPX p quotedblright -60  
KPX p period -10  
KPX p comma -10

KPX parenleft Y 64  
KPX parenleft W 64  
KPX parenleft V 64  
KPX parenleft T 50  
KPX parenleft J 50

KPX period space -40  
KPX period quoteright -100  
KPX period quotedblright -100

KPX q quoteright -50  
KPX q quotedblright -50  
KPX q period -10  
KPX q comma -10

KPX quotedblleft z -26  
KPX quotedblleft w 10  
KPX quotedblleft u -40  
KPX quotedblleft t -40  
KPX quotedblleft s -32  
KPX quotedblleft r -40  
KPX quotedblleft q -70  
KPX quotedblleft p -40

KPX quotedblleft o -70  
KPX quotedblleft n -40  
KPX quotedblleft m -40  
KPX quotedblleft g -50  
KPX quotedblleft f -30  
KPX quotedblleft e -70  
KPX quotedblleft d -70  
KPX quotedblleft c -70  
KPX quotedblleft a -60  
KPX quotedblleft Y 30  
KPX quotedblleft X 20  
KPX quotedblleft W 40  
KPX quotedblleft V 40  
KPX quotedblleft T 18  
KPX quotedblleft J -24  
KPX quotedblleft A -122

KPX quotedblright space -40  
KPX quotedblright period -100  
KPX quotedblright comma -100

KPX quoteleft z -26  
KPX quoteleft y -5  
KPX quoteleft x -5  
KPX quoteleft w 5  
KPX quoteleft v -5  
KPX quoteleft u -25  
KPX quoteleft t -25  
KPX quoteleft s -40  
KPX quoteleft r -40  
KPX quoteleft quoteleft -30  
KPX quoteleft q -70  
KPX quoteleft p -40  
KPX quoteleft o -70  
KPX quoteleft n -40  
KPX quoteleft m -40  
KPX quoteleft g -50  
KPX quoteleft f -10  
KPX quoteleft e -70  
KPX quoteleft d -70  
KPX quoteleft c -70  
KPX quoteleft a -60  
KPX quoteleft Y 35  
KPX quoteleft X 30  
KPX quoteleft W 35  
KPX quoteleft V 35  
KPX quoteleft T 35  
KPX quoteleft J -24

KPX quoteleft A -122

KPX quoteright v -20

KPX quoteright t -50

KPX quoteright space -40

KPX quoteright s -70

KPX quoteright r -42

KPX quoteright quoteright -30

KPX quoteright period -100

KPX quoteright m -42

KPX quoteright l -6

KPX quoteright d -100

KPX quoteright comma -100

KPX r z 20

KPX r y 18

KPX r x 12

KPX r w 30

KPX r v 30

KPX r u 8

KPX r t 8

KPX r semicolon 20

KPX r quoteright -20

KPX r quotedblright -10

KPX r q -6

KPX r period -60

KPX r o -6

KPX r n 8

KPX r m 8

KPX r l -10

KPX r k -10

KPX r i 8

KPX r hyphen -60

KPX r h -10

KPX r g 5

KPX r f 8

KPX r emdash -20

KPX r e -20

KPX r d -20

KPX r comma -80

KPX r colon 20

KPX r c -20

KPX s quoteright -40

KPX s quotedblright -40

KPX semicolon space -20

KPX space quotesinglbase -100  
KPX space quoteleft -40  
KPX space quotedblleft -40  
KPX space quotedblbase -100  
KPX space Y -60  
KPX space W -60  
KPX space V -60  
KPX space T -40

KPX t period 15  
KPX t comma 10

KPX u quoteright -60  
KPX u quotedblright -60

KPX v semicolon 20  
KPX v quoteright 5  
KPX v quotedblright 10  
KPX v q -15  
KPX v period -75  
KPX v o -15  
KPX v e -15  
KPX v d -15  
KPX v comma -90  
KPX v colon 20  
KPX v c -15  
KPX v a -15

KPX w semicolon 20  
KPX w quoteright 15  
KPX w quotedblright 20  
KPX w q -10  
KPX w period -60  
KPX w o -10  
KPX w e -10  
KPX w d -10  
KPX w comma -68  
KPX w colon 20  
KPX w c -10

KPX x quoteright -25  
KPX x quotedblright -20  
KPX x q -6  
KPX x o -6  
KPX x e -12  
KPX x d -12  
KPX x c -12

KPX y semicolon 20  
KPX y quoteright 5  
KPX y quotedblright 10  
KPX y period -72  
KPX y hyphen -20  
KPX y comma -72  
KPX y colon 20

KPX z quoteright -20  
KPX z quotedblright -20  
KPX z o -6  
KPX z e -6  
KPX z d -6  
KPX z c -6  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue Jan 21 16:12:43 1992

Comment UniqueID 37832

Comment VMusage 32139 39031

FontName Bookman-DemiItalic

FullName ITC Bookman Demi Italic

FamilyName ITC Bookman

Weight Demi

ItalicAngle -10

IsFixedPitch false

FontBBox -231 -250 1333 941

UnderlinePosition -100

UnderlineThickness 50

Version 001.004

Notice Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved. ITC Bookman is a registered trademark of International Typeface Corporation.

EncodingScheme AdobeStandardEncoding

CapHeight 681

XHeight 515

Ascender 732

Descender -213

StartCharMetrics 228

C 32 ; WX 340 ; N space ; B 0 0 0 0 ;

C 33 ; WX 320 ; N exclam ; B 86 -8 366 698 ;

C 34 ; WX 380 ; N quotedbl ; B 140 371 507 697 ;

C 35 ; WX 680 ; N numbersign ; B 157 0 649 681 ;

C 36 ; WX 680 ; N dollar ; B 45 -164 697 790 ;

C 37 ; WX 880 ; N percent ; B 106 -17 899 698 ;

C 38 ; WX 980 ; N ampersand ; B 48 -17 1016 698 ;

C 39 ; WX 320 ; N quoteright ; B 171 420 349 698 ;



C 40 ; WX 260 ; N parenleft ; B 31 -134 388 741 ;  
C 41 ; WX 260 ; N parenright ; B -35 -134 322 741 ;  
C 42 ; WX 460 ; N asterisk ; B 126 346 508 698 ;  
C 43 ; WX 600 ; N plus ; B 91 9 595 514 ;  
C 44 ; WX 340 ; N comma ; B 100 -124 298 185 ;  
C 45 ; WX 280 ; N hyphen ; B 59 218 319 313 ;  
C 46 ; WX 340 ; N period ; B 106 -8 296 177 ;  
C 47 ; WX 360 ; N slash ; B 9 -106 502 742 ;  
C 48 ; WX 680 ; N zero ; B 87 -17 703 698 ;  
C 49 ; WX 680 ; N one ; B 123 0 565 681 ;  
C 50 ; WX 680 ; N two ; B 67 0 674 698 ;  
C 51 ; WX 680 ; N three ; B 72 -17 683 698 ;  
C 52 ; WX 680 ; N four ; B 63 0 708 681 ;  
C 53 ; WX 680 ; N five ; B 78 -17 669 681 ;  
C 54 ; WX 680 ; N six ; B 88 -17 704 698 ;  
C 55 ; WX 680 ; N seven ; B 123 0 739 681 ;  
C 56 ; WX 680 ; N eight ; B 68 -17 686 698 ;  
C 57 ; WX 680 ; N nine ; B 71 -17 712 698 ;  
C 58 ; WX 340 ; N colon ; B 106 -8 356 515 ;  
C 59 ; WX 340 ; N semicolon ; B 100 -124 352 515 ;  
C 60 ; WX 620 ; N less ; B 79 -9 588 540 ;  
C 61 ; WX 600 ; N equal ; B 91 109 595 421 ;  
C 62 ; WX 620 ; N greater ; B 89 -9 598 540 ;  
C 63 ; WX 620 ; N question ; B 145 -8 668 698 ;  
C 64 ; WX 780 ; N at ; B 80 -17 790 698 ;  
C 65 ; WX 720 ; N A ; B -27 0 769 681 ;  
C 66 ; WX 720 ; N B ; B 14 0 762 681 ;  
C 67 ; WX 700 ; N C ; B 78 -17 754 698 ;  
C 68 ; WX 760 ; N D ; B 14 0 805 681 ;  
C 69 ; WX 720 ; N E ; B 14 0 777 681 ;  
C 70 ; WX 660 ; N F ; B 14 0 763 681 ;  
C 71 ; WX 760 ; N G ; B 77 -17 828 698 ;  
C 72 ; WX 800 ; N H ; B 14 0 910 681 ;  
C 73 ; WX 380 ; N I ; B 14 0 485 681 ;  
C 74 ; WX 620 ; N J ; B 8 -17 721 681 ;  
C 75 ; WX 780 ; N K ; B 14 0 879 681 ;  
C 76 ; WX 640 ; N L ; B 14 0 725 681 ;  
C 77 ; WX 860 ; N M ; B 14 0 970 681 ;  
C 78 ; WX 740 ; N N ; B 14 0 845 681 ;  
C 79 ; WX 760 ; N O ; B 78 -17 806 698 ;  
C 80 ; WX 640 ; N P ; B -6 0 724 681 ;  
C 81 ; WX 760 ; N Q ; B 37 -213 805 698 ;  
C 82 ; WX 740 ; N R ; B 14 0 765 681 ;  
C 83 ; WX 700 ; N S ; B 59 -17 731 698 ;  
C 84 ; WX 700 ; N T ; B 70 0 802 681 ;  
C 85 ; WX 740 ; N U ; B 112 -17 855 681 ;  
C 86 ; WX 660 ; N V ; B 72 0 819 681 ;  
C 87 ; WX 1000 ; N W ; B 72 0 1090 681 ;

C 88 ; WX 740 ; N X ; B -7 0 835 681 ;  
C 89 ; WX 660 ; N Y ; B 72 0 817 681 ;  
C 90 ; WX 680 ; N Z ; B 23 0 740 681 ;  
C 91 ; WX 260 ; N bracketleft ; B 9 -118 374 741 ;  
C 92 ; WX 580 ; N backslash ; B 73 0 575 741 ;  
C 93 ; WX 260 ; N bracketright ; B -18 -118 347 741 ;  
C 94 ; WX 620 ; N asciicircum ; B 92 281 594 681 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 320 ; N quoteleft ; B 155 420 333 698 ;  
C 97 ; WX 680 ; N a ; B 84 -8 735 515 ;  
C 98 ; WX 600 ; N b ; B 57 -8 633 732 ;  
C 99 ; WX 560 ; N c ; B 58 -8 597 515 ;  
C 100 ; WX 680 ; N d ; B 60 -8 714 732 ;  
C 101 ; WX 560 ; N e ; B 59 -8 596 515 ;  
C 102 ; WX 420 ; N f ; B -192 -213 641 741 ; L i f i ; L l f l ;  
C 103 ; WX 620 ; N g ; B 21 -213 669 515 ;  
C 104 ; WX 700 ; N h ; B 93 -8 736 732 ;  
C 105 ; WX 380 ; N i ; B 83 -8 420 755 ;  
C 106 ; WX 320 ; N j ; B -160 -213 392 755 ;  
C 107 ; WX 700 ; N k ; B 97 -8 732 732 ;  
C 108 ; WX 380 ; N l ; B 109 -8 410 732 ;  
C 109 ; WX 960 ; N m ; B 83 -8 996 515 ;  
C 110 ; WX 680 ; N n ; B 83 -8 715 515 ;  
C 111 ; WX 600 ; N o ; B 59 -8 627 515 ;  
C 112 ; WX 660 ; N p ; B -24 -213 682 515 ;  
C 113 ; WX 620 ; N q ; B 60 -213 640 515 ;  
C 114 ; WX 500 ; N r ; B 84 0 582 515 ;  
C 115 ; WX 540 ; N s ; B 32 -8 573 515 ;  
C 116 ; WX 440 ; N t ; B 106 -8 488 658 ;  
C 117 ; WX 680 ; N u ; B 83 -8 720 507 ;  
C 118 ; WX 540 ; N v ; B 56 -8 572 515 ;  
C 119 ; WX 860 ; N w ; B 56 -8 891 515 ;  
C 120 ; WX 620 ; N x ; B 10 -8 654 515 ;  
C 121 ; WX 600 ; N y ; B 25 -213 642 507 ;  
C 122 ; WX 560 ; N z ; B 36 -8 586 515 ;  
C 123 ; WX 300 ; N braceleft ; B 49 -123 413 742 ;  
C 124 ; WX 620 ; N bar ; B 303 -250 422 750 ;  
C 125 ; WX 300 ; N braceright ; B -8 -114 356 751 ;  
C 126 ; WX 620 ; N asciitilde ; B 101 162 605 368 ;  
C 161 ; WX 320 ; N exclamdown ; B 64 -191 344 515 ;  
C 162 ; WX 680 ; N cent ; B 161 25 616 718 ;  
C 163 ; WX 680 ; N sterling ; B 0 -17 787 698 ;  
C 164 ; WX 120 ; N fraction ; B -144 0 382 681 ;  
C 165 ; WX 680 ; N yen ; B 92 0 782 681 ;  
C 166 ; WX 680 ; N florin ; B -28 -199 743 741 ;  
C 167 ; WX 620 ; N section ; B 46 -137 638 698 ;  
C 168 ; WX 680 ; N currency ; B 148 85 637 571 ;  
C 169 ; WX 180 ; N quotesingle ; B 126 370 295 696 ;

C 170 ; WX 520 ; N quotedblleft ; B 156 420 545 698 ;  
C 171 ; WX 380 ; N guillemotleft ; B 62 84 406 503 ;  
C 172 ; WX 220 ; N guilsinglleft ; B 62 84 249 503 ;  
C 173 ; WX 220 ; N guilsinglright ; B 62 84 249 503 ;  
C 174 ; WX 820 ; N fi ; B -191 -213 850 741 ;  
C 175 ; WX 820 ; N fl ; B -191 -213 850 741 ;  
C 177 ; WX 500 ; N endash ; B 40 219 573 311 ;  
C 178 ; WX 420 ; N dagger ; B 89 -137 466 698 ;  
C 179 ; WX 420 ; N daggerdbl ; B 79 -137 486 698 ;  
C 180 ; WX 340 ; N periodcentered ; B 126 173 316 358 ;  
C 182 ; WX 680 ; N paragraph ; B 137 0 715 681 ;  
C 183 ; WX 360 ; N bullet ; B 60 170 404 511 ;  
C 184 ; WX 300 ; N quotesinglbase ; B 106 -112 284 166 ;  
C 185 ; WX 520 ; N quotedblbase ; B 106 -112 495 166 ;  
C 186 ; WX 520 ; N quotedblright ; B 171 420 560 698 ;  
C 187 ; WX 380 ; N guillemotright ; B 62 84 406 503 ;  
C 188 ; WX 1000 ; N ellipsis ; B 86 -8 942 177 ;  
C 189 ; WX 1360 ; N perthousand ; B 106 -17 1333 698 ;  
C 191 ; WX 620 ; N questiondown ; B 83 -189 606 515 ;  
C 193 ; WX 380 ; N grave ; B 193 566 424 771 ;  
C 194 ; WX 340 ; N acute ; B 176 566 407 771 ;  
C 195 ; WX 480 ; N circumflex ; B 183 582 523 749 ;  
C 196 ; WX 480 ; N tilde ; B 178 587 533 709 ;  
C 197 ; WX 480 ; N macron ; B 177 603 531 691 ;  
C 198 ; WX 460 ; N breve ; B 177 577 516 707 ;  
C 199 ; WX 380 ; N dotaccent ; B 180 570 345 734 ;  
C 200 ; WX 520 ; N dieresis ; B 180 570 569 734 ;  
C 202 ; WX 360 ; N ring ; B 185 558 406 775 ;  
C 203 ; WX 360 ; N cedilla ; B 68 -220 289 -8 ;  
C 205 ; WX 560 ; N hungarumlaut ; B 181 560 616 775 ;  
C 206 ; WX 320 ; N ogonek ; B 68 -182 253 0 ;  
C 207 ; WX 480 ; N caron ; B 183 582 523 749 ;  
C 208 ; WX 1000 ; N emdash ; B 40 219 1073 311 ;  
C 225 ; WX 1140 ; N AE ; B -27 0 1207 681 ;  
C 227 ; WX 440 ; N ordfeminine ; B 118 400 495 685 ;  
C 232 ; WX 640 ; N Lslash ; B 14 0 724 681 ;  
C 233 ; WX 760 ; N Oslash ; B 21 -29 847 725 ;  
C 234 ; WX 1180 ; N OE ; B 94 -17 1245 698 ;  
C 235 ; WX 440 ; N ordmasculine ; B 127 400 455 685 ;  
C 241 ; WX 880 ; N ae ; B 39 -8 913 515 ;  
C 245 ; WX 380 ; N dotlessi ; B 83 -8 420 507 ;  
C 248 ; WX 380 ; N lslash ; B 63 -8 412 732 ;  
C 249 ; WX 600 ; N oslash ; B 17 -54 661 571 ;  
C 250 ; WX 920 ; N oe ; B 48 -8 961 515 ;  
C 251 ; WX 660 ; N germandbls ; B -231 -213 702 741 ;  
C -1 ; WX 560 ; N ecircumflex ; B 59 -8 596 749 ;  
C -1 ; WX 560 ; N edieresis ; B 59 -8 596 734 ;  
C -1 ; WX 680 ; N aacute ; B 84 -8 735 771 ;

C -1 ; WX 780 ; N registered ; B 83 -17 783 698 ;  
C -1 ; WX 380 ; N icircumflex ; B 83 -8 433 749 ;  
C -1 ; WX 680 ; N udieresis ; B 83 -8 720 734 ;  
C -1 ; WX 600 ; N ograve ; B 59 -8 627 771 ;  
C -1 ; WX 680 ; N uacute ; B 83 -8 720 771 ;  
C -1 ; WX 680 ; N ucircumflex ; B 83 -8 720 749 ;  
C -1 ; WX 720 ; N Aacute ; B -27 0 769 937 ;  
C -1 ; WX 380 ; N igrave ; B 83 -8 424 771 ;  
C -1 ; WX 380 ; N Icircumflex ; B 14 0 493 915 ;  
C -1 ; WX 560 ; N ccedilla ; B 58 -220 597 515 ;  
C -1 ; WX 680 ; N adieresis ; B 84 -8 735 734 ;  
C -1 ; WX 720 ; N Ecircumflex ; B 14 0 777 915 ;  
C -1 ; WX 540 ; N scaron ; B 32 -8 573 749 ;  
C -1 ; WX 660 ; N thorn ; B -24 -213 682 732 ;  
C -1 ; WX 940 ; N trademark ; B 42 277 982 681 ;  
C -1 ; WX 560 ; N egrave ; B 59 -8 596 771 ;  
C -1 ; WX 408 ; N threesuperior ; B 86 269 483 698 ;  
C -1 ; WX 560 ; N zcaron ; B 36 -8 586 749 ;  
C -1 ; WX 680 ; N atilde ; B 84 -8 735 709 ;  
C -1 ; WX 680 ; N aring ; B 84 -8 735 775 ;  
C -1 ; WX 600 ; N ocircumflex ; B 59 -8 627 749 ;  
C -1 ; WX 720 ; N Edieresis ; B 14 0 777 900 ;  
C -1 ; WX 1020 ; N threequarters ; B 86 0 1054 691 ;  
C -1 ; WX 600 ; N ydieresis ; B 25 -213 642 734 ;  
C -1 ; WX 600 ; N yacute ; B 25 -213 642 771 ;  
C -1 ; WX 380 ; N iacute ; B 83 -8 420 771 ;  
C -1 ; WX 720 ; N Acircumflex ; B -27 0 769 915 ;  
C -1 ; WX 740 ; N Uacute ; B 112 -17 855 937 ;  
C -1 ; WX 560 ; N eacute ; B 59 -8 596 771 ;  
C -1 ; WX 760 ; N Ograve ; B 78 -17 806 937 ;  
C -1 ; WX 680 ; N agrave ; B 84 -8 735 771 ;  
C -1 ; WX 740 ; N Udieresis ; B 112 -17 855 900 ;  
C -1 ; WX 680 ; N acircumflex ; B 84 -8 735 749 ;  
C -1 ; WX 380 ; N Igrave ; B 14 0 485 937 ;  
C -1 ; WX 408 ; N twosuperior ; B 91 279 485 698 ;  
C -1 ; WX 740 ; N Ugrave ; B 112 -17 855 937 ;  
C -1 ; WX 1020 ; N onequarter ; B 118 0 1054 681 ;  
C -1 ; WX 740 ; N Ucircumflex ; B 112 -17 855 915 ;  
C -1 ; WX 700 ; N Scaron ; B 59 -17 731 915 ;  
C -1 ; WX 380 ; N Idieresis ; B 14 0 499 900 ;  
C -1 ; WX 380 ; N idieresis ; B 83 -8 479 734 ;  
C -1 ; WX 720 ; N Egrave ; B 14 0 777 937 ;  
C -1 ; WX 760 ; N Oacute ; B 78 -17 806 937 ;  
C -1 ; WX 600 ; N divide ; B 91 9 595 521 ;  
C -1 ; WX 720 ; N Atilde ; B -27 0 769 875 ;  
C -1 ; WX 720 ; N Aring ; B -27 0 769 941 ;  
C -1 ; WX 760 ; N Odieresis ; B 78 -17 806 900 ;  
C -1 ; WX 720 ; N Adieresis ; B -27 0 769 900 ;

C -1 ; WX 740 ; N Ntilde ; B 14 0 845 875 ;  
C -1 ; WX 680 ; N Zcaron ; B 23 0 740 915 ;  
C -1 ; WX 640 ; N Thorn ; B -6 0 701 681 ;  
C -1 ; WX 380 ; N Iacute ; B 14 0 485 937 ;  
C -1 ; WX 600 ; N plusminus ; B 91 0 595 514 ;  
C -1 ; WX 600 ; N multiply ; B 91 10 595 514 ;  
C -1 ; WX 720 ; N Eacute ; B 14 0 777 937 ;  
C -1 ; WX 660 ; N Ydieresis ; B 72 0 817 900 ;  
C -1 ; WX 408 ; N onesuperior ; B 118 279 406 688 ;  
C -1 ; WX 680 ; N ugrave ; B 83 -8 720 771 ;  
C -1 ; WX 620 ; N logicalnot ; B 81 129 585 421 ;  
C -1 ; WX 680 ; N ntilde ; B 83 -8 715 709 ;  
C -1 ; WX 760 ; N Otilde ; B 78 -17 806 875 ;  
C -1 ; WX 600 ; N otilde ; B 59 -8 627 709 ;  
C -1 ; WX 700 ; N Ccedilla ; B 78 -220 754 698 ;  
C -1 ; WX 720 ; N Agrave ; B -27 0 769 937 ;  
C -1 ; WX 1020 ; N onehalf ; B 118 0 1036 681 ;  
C -1 ; WX 760 ; N Eth ; B 14 0 805 681 ;  
C -1 ; WX 400 ; N degree ; B 130 398 430 698 ;  
C -1 ; WX 660 ; N Yacute ; B 72 0 817 937 ;  
C -1 ; WX 760 ; N Ocircumflex ; B 78 -17 806 915 ;  
C -1 ; WX 600 ; N oacute ; B 59 -8 627 771 ;  
C -1 ; WX 680 ; N mu ; B 54 -213 720 507 ;  
C -1 ; WX 600 ; N minus ; B 91 207 595 323 ;  
C -1 ; WX 600 ; N eth ; B 59 -8 662 741 ;  
C -1 ; WX 600 ; N odieresis ; B 59 -8 627 734 ;  
C -1 ; WX 780 ; N copyright ; B 83 -17 783 698 ;  
C -1 ; WX 620 ; N brokenbar ; B 303 -175 422 675 ;

EndCharMetrics

StartKernData

StartKernPairs 92

KPX A y 20

KPX A w 20

KPX A v 20

KPX A Y -25

KPX A W -35

KPX A V -40

KPX A T -17

KPX F period -105

KPX F comma -98

KPX F A -35

KPX L y 62

KPX L Y -5

KPX L W -15

KPX L V -19

KPX L T -26

KPX P period -105  
KPX P comma -98  
KPX P A -31

KPX R y 27  
KPX R Y 4  
KPX R W -4  
KPX R V -8  
KPX R T -3

KPX T y 56  
KPX T w 69  
KPX T u 42  
KPX T semicolon 31  
KPX T s -1  
KPX T r 41  
KPX T period -107  
KPX T o -5  
KPX T i 42  
KPX T hyphen -20  
KPX T e -10  
KPX T comma -100  
KPX T colon 26  
KPX T c -8  
KPX T a -8  
KPX T A -42

KPX V y 17  
KPX V u -1  
KPX V semicolon -22  
KPX V r 2  
KPX V period -115  
KPX V o -50  
KPX V i 32  
KPX V hyphen -20  
KPX V e -50  
KPX V comma -137  
KPX V colon -28  
KPX V a -50  
KPX V A -50

KPX W y -51  
KPX W u -69  
KPX W semicolon -81  
KPX W r -66  
KPX W period -183

KPX W o -100  
KPX W i -36  
KPX W hyphen -22  
KPX W e -100  
KPX W comma -201  
KPX W colon -86  
KPX W a -100  
KPX W A -77

KPX Y v 26  
KPX Y u -1  
KPX Y semicolon -4  
KPX Y q -43  
KPX Y period -113  
KPX Y o -41  
KPX Y i 20  
KPX Y hyphen -20  
KPX Y e -46  
KPX Y comma -106  
KPX Y colon -9  
KPX Y a -45  
KPX Y A -30

KPX f f 10

KPX r q -3  
KPX r period -120  
KPX r o -1  
KPX r n 39  
KPX r m 39  
KPX r hyphen -20  
KPX r h -35  
KPX r g -23  
KPX r f 42  
KPX r e -6  
KPX r d -3  
KPX r comma -113  
KPX r c -5  
EndKernPairs  
EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 190 166 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 120 166 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 100 166 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 170 166 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 200 166 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 166 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 190 166 ;

CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 120 166 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 100 166 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 170 166 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 20 166 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -30 166 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -70 166 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 166 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 166 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 210 166 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 140 166 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 140 166 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 190 166 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 140 166 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 110 166 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 200 166 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 130 166 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 130 166 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 180 166 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 160 166 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 70 166 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 100 166 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 170 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 100 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 150 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 160 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 100 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 110 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 60 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 20 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 90 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -90 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -90 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 60 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 130 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 60 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 40 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 110 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 60 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 30 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 170 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 100 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 80 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 150 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 130 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 40 0 ;



CC zcaron 2 ; PCC z 0 0 ; PCC caron 40 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Creation Date: Thu Jun 21 22:23:22 1990  
Comment UniqueID 5000785  
FontName CMMI10  
EncodingScheme FontSpecific  
FullName CMMI10  
FamilyName Computer Modern  
Weight Medium  
ItalicAngle -14.04  
IsFixedPitch false  
Version 1.00A  
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.  
Comment Computer Modern fonts were designed by Donald E. Knuth  
FontBBox -32 -250 1048 750  
CapHeight 683.333  
XHeight 430.556  
Ascender 694.444  
Descender -194.444  
Comment FontID CMMI  
Comment DesignSize 10 (pts)  
Comment CharacterCodingScheme TeX math italic  
Comment Space 0 0 0  
Comment Quad 1000  
StartCharMetrics 129  
C 0 ; WX 615.276 ; N Gamma ; B 39 0 723 680 ;  
C 1 ; WX 833.333 ; N Delta ; B 49 0 787 716 ;  
C 2 ; WX 762.774 ; N Theta ; B 50 -22 739 705 ;  
C 3 ; WX 694.444 ; N Lambda ; B 35 0 666 716 ;  
C 4 ; WX 742.361 ; N Xi ; B 53 0 777 677 ;  
C 5 ; WX 831.25 ; N Pi ; B 39 0 880 680 ;  
C 6 ; WX 779.861 ; N Sigma ; B 59 0 807 683 ;  
C 7 ; WX 583.333 ; N Upsilon ; B 29 0 700 705 ;  
C 8 ; WX 666.667 ; N Phi ; B 24 0 642 683 ;  
C 9 ; WX 612.221 ; N Psi ; B 28 0 692 683 ;  
C 10 ; WX 772.396 ; N Omega ; B 80 0 785 705 ;  
C 11 ; WX 639.7 ; N alpha ; B 41 -11 601 442 ;  
C 12 ; WX 565.625 ; N beta ; B 25 -194 590 705 ;  
C 13 ; WX 517.73 ; N gamma ; B 18 -215 542 442 ;  
C 14 ; WX 444.444 ; N delta ; B 41 -12 452 705 ;  
C 15 ; WX 405.902 ; N epsilon1 ; B 47 -11 376 431 ;  
C 16 ; WX 437.5 ; N zeta ; B 47 -205 474 697 ;  
C 17 ; WX 496.53 ; N eta ; B 29 -216 496 442 ;  
C 18 ; WX 469.442 ; N theta ; B 42 -11 455 705 ;  
C 19 ; WX 353.935 ; N iota ; B 56 -11 324 442 ;  
C 20 ; WX 576.159 ; N kappa ; B 55 -11 546 442 ;

C 21 ; WX 583.333 ; N lambda ; B 53 -13 547 694 ;  
C 22 ; WX 602.548 ; N mu ; B 30 -216 572 442 ;  
C 23 ; WX 493.981 ; N nu ; B 53 0 524 442 ;  
C 24 ; WX 437.5 ; N xi ; B 24 -205 446 697 ;  
C 25 ; WX 570.025 ; N pi ; B 27 -11 567 431 ;  
C 26 ; WX 517.014 ; N rho ; B 30 -216 502 442 ;  
C 27 ; WX 571.429 ; N sigma ; B 38 -11 567 431 ;  
C 28 ; WX 437.153 ; N tau ; B 27 -12 511 431 ;  
C 29 ; WX 540.278 ; N upsilon ; B 29 -11 524 443 ;  
C 30 ; WX 595.833 ; N phi ; B 49 -205 573 694 ;  
C 31 ; WX 625.691 ; N chi ; B 32 -205 594 442 ;  
C 32 ; WX 651.39 ; N psi ; B 29 -205 635 694 ;  
C 33 ; WX 622.453 ; N omega ; B 13 -11 605 443 ;  
C 34 ; WX 466.316 ; N epsilon ; B 27 -22 428 453 ;  
C 35 ; WX 591.438 ; N theta1 ; B 29 -11 561 705 ;  
C 36 ; WX 828.125 ; N pi1 ; B 27 -11 817 431 ;  
C 37 ; WX 517.014 ; N rho1 ; B 74 -194 502 442 ;  
C 38 ; WX 362.846 ; N sigma1 ; B 32 -108 408 442 ;  
C 39 ; WX 654.165 ; N phi1 ; B 50 -218 619 442 ;  
C 40 ; WX 1000 ; N arrowlefttophalf ; B 56 230 943 428 ;  
C 41 ; WX 1000 ; N arrowleftbothhalf ; B 56 72 943 270 ;  
C 42 ; WX 1000 ; N arrowrighttophalf ; B 56 230 943 428 ;  
C 43 ; WX 1000 ; N arrowrightbothhalf ; B 56 72 943 270 ;  
C 44 ; WX 277.778 ; N arrowhookleft ; B 56 230 221 464 ;  
C 45 ; WX 277.778 ; N arrowhookright ; B 56 230 221 464 ;  
C 46 ; WX 500 ; N triangleright ; B 27 -4 472 504 ;  
C 47 ; WX 500 ; N triangleleft ; B 27 -4 472 504 ;  
C 48 ; WX 500 ; N zerooldstyle ; B 40 -22 459 453 ;  
C 49 ; WX 500 ; N oneoldstyle ; B 92 0 418 453 ;  
C 50 ; WX 500 ; N twooldstyle ; B 44 0 449 453 ;  
C 51 ; WX 500 ; N threeoldstyle ; B 42 -216 457 453 ;  
C 52 ; WX 500 ; N fouroldstyle ; B 28 -194 471 464 ;  
C 53 ; WX 500 ; N fiveoldstyle ; B 50 -216 449 453 ;  
C 54 ; WX 500 ; N sixoldstyle ; B 42 -22 457 666 ;  
C 55 ; WX 500 ; N sevenoldstyle ; B 56 -216 485 463 ;  
C 56 ; WX 500 ; N eightoldstyle ; B 42 -22 457 666 ;  
C 57 ; WX 500 ; N nineoldstyle ; B 42 -216 457 453 ;  
C 58 ; WX 277.778 ; N period ; B 86 0 192 106 ;  
C 59 ; WX 277.778 ; N comma ; B 86 -193 203 106 ;  
C 60 ; WX 777.778 ; N less ; B 83 -39 694 539 ;  
C 61 ; WX 500 ; N slash ; B 56 -250 443 750 ;  
C 62 ; WX 777.778 ; N greater ; B 83 -39 694 539 ;  
C 63 ; WX 500 ; N star ; B 4 16 496 486 ;  
C 64 ; WX 530.902 ; N partialdiff ; B 40 -22 566 716 ;  
C 65 ; WX 750 ; N A ; B 35 0 722 716 ;  
C 66 ; WX 758.508 ; N B ; B 42 0 756 683 ;  
C 67 ; WX 714.72 ; N C ; B 51 -22 759 705 ;  
C 68 ; WX 827.915 ; N D ; B 41 0 803 683 ;

C 69 ; WX 738.193 ; N E ; B 39 0 765 680 ;  
C 70 ; WX 643.055 ; N F ; B 39 0 751 680 ;  
C 71 ; WX 786.247 ; N G ; B 51 -22 760 705 ;  
C 72 ; WX 831.25 ; N H ; B 39 0 881 683 ;  
C 73 ; WX 439.583 ; N I ; B 34 0 498 683 ;  
C 74 ; WX 554.512 ; N J ; B 73 -22 633 683 ;  
C 75 ; WX 849.305 ; N K ; B 39 0 889 683 ;  
C 76 ; WX 680.556 ; N L ; B 39 0 643 683 ;  
C 77 ; WX 970.138 ; N M ; B 43 0 1044 683 ;  
C 78 ; WX 803.471 ; N N ; B 39 0 881 683 ;  
C 79 ; WX 762.774 ; N O ; B 50 -22 739 705 ;  
C 80 ; WX 642.012 ; N P ; B 41 0 753 683 ;  
C 81 ; WX 790.553 ; N Q ; B 50 -194 739 705 ;  
C 82 ; WX 759.288 ; N R ; B 41 -22 755 683 ;  
C 83 ; WX 613.193 ; N S ; B 53 -22 645 705 ;  
C 84 ; WX 584.375 ; N T ; B 24 0 704 677 ;  
C 85 ; WX 682.776 ; N U ; B 68 -22 760 683 ;  
C 86 ; WX 583.333 ; N V ; B 56 -22 769 683 ;  
C 87 ; WX 944.444 ; N W ; B 55 -22 1048 683 ;  
C 88 ; WX 828.472 ; N X ; B 27 0 851 683 ;  
C 89 ; WX 580.556 ; N Y ; B 34 0 762 683 ;  
C 90 ; WX 682.638 ; N Z ; B 59 0 722 683 ;  
C 91 ; WX 388.889 ; N flat ; B 56 -22 332 750 ;  
C 92 ; WX 388.889 ; N natural ; B 79 -217 309 728 ;  
C 93 ; WX 388.889 ; N sharp ; B 56 -216 332 716 ;  
C 94 ; WX 1000 ; N slurbelow ; B 56 133 943 371 ;  
C 95 ; WX 1000 ; N slurabove ; B 56 130 943 381 ;  
C 96 ; WX 416.667 ; N lscript ; B 11 -12 398 705 ;  
C 97 ; WX 528.588 ; N a ; B 40 -11 498 442 ;  
C 98 ; WX 429.165 ; N b ; B 47 -11 415 694 ;  
C 99 ; WX 432.755 ; N c ; B 41 -11 430 442 ;  
C 100 ; WX 520.486 ; N d ; B 40 -11 517 694 ;  
C 101 ; WX 465.625 ; N e ; B 46 -11 430 442 ;  
C 102 ; WX 489.583 ; N f ; B 53 -205 552 705 ;  
C 103 ; WX 476.967 ; N g ; B 16 -205 474 442 ;  
C 104 ; WX 576.159 ; N h ; B 55 -11 546 694 ;  
C 105 ; WX 344.511 ; N i ; B 29 -11 293 661 ;  
C 106 ; WX 411.805 ; N j ; B -13 -205 397 661 ;  
C 107 ; WX 520.602 ; N k ; B 55 -11 508 694 ;  
C 108 ; WX 298.378 ; N l ; B 46 -11 260 694 ;  
C 109 ; WX 878.012 ; N m ; B 29 -11 848 442 ;  
C 110 ; WX 600.233 ; N n ; B 29 -11 571 442 ;  
C 111 ; WX 484.721 ; N o ; B 41 -11 469 442 ;  
C 112 ; WX 503.125 ; N p ; B -32 -194 490 442 ;  
C 113 ; WX 446.412 ; N q ; B 40 -194 453 442 ;  
C 114 ; WX 451.158 ; N r ; B 29 -11 436 442 ;  
C 115 ; WX 468.75 ; N s ; B 52 -11 419 442 ;  
C 116 ; WX 361.111 ; N t ; B 23 -11 330 626 ;

C 117 ; WX 572.456 ; N u ; B 29 -11 543 442 ;  
C 118 ; WX 484.722 ; N v ; B 29 -11 468 443 ;  
C 119 ; WX 715.916 ; N w ; B 29 -11 691 443 ;  
C 120 ; WX 571.527 ; N x ; B 29 -11 527 442 ;  
C 121 ; WX 490.28 ; N y ; B 29 -205 490 442 ;  
C 122 ; WX 465.048 ; N z ; B 43 -11 467 442 ;  
C 123 ; WX 322.454 ; N dotlessi ; B 29 -11 293 442 ;  
C 124 ; WX 384.028 ; N dotlessj ; B -13 -205 360 442 ;  
C 125 ; WX 636.457 ; N weierstrass ; B 76 -216 618 453 ;  
C 126 ; WX 500 ; N vector ; B 182 516 625 714 ;  
C 127 ; WX 277.778 ; N tie ; B 264 538 651 665 ;  
C -1 ; WX 333.333 ; N space ; B 0 0 0 0 ;

EndCharMetrics

Comment The following are bogus kern pairs for TeX positioning of accents

StartKernData

StartKernPairs 166

KPX Gamma slash -55.556

KPX Gamma comma -111.111

KPX Gamma period -111.111

KPX Gamma tie 83.333

KPX Delta tie 166.667

KPX Theta tie 83.333

KPX Lambda tie 166.667

KPX Xi tie 83.333

KPX Pi slash -55.556

KPX Pi comma -55.556

KPX Pi period -55.556

KPX Pi tie 55.556

KPX Sigma tie 83.333

KPX Upsilon slash -55.556

KPX Upsilon comma -111.111

KPX Upsilon period -111.111

KPX Upsilon tie 55.556

KPX Phi tie 83.333

KPX Psi slash -55.556

KPX Psi comma -55.556

KPX Psi period -55.556

KPX Psi tie 55.556

KPX Omega tie 83.333

KPX alpha tie 27.778

KPX beta tie 83.333

KPX delta comma -55.556

KPX delta period -55.556

KPX delta tie 55.556

KPX epsilon1 tie 55.556

KPX zeta tie 83.333

KPX eta tie 55.556

KPX theta tie 83.333

KPX iota tie 55.556  
KPX mu tie 27.778  
KPX nu comma -55.556  
KPX nu period -55.556  
KPX nu tie 27.778  
KPX xi tie 111.111  
KPX rho tie 83.333  
KPX sigma comma -55.556  
KPX sigma period -55.556  
KPX tau comma -55.556  
KPX tau period -55.556  
KPX tau tie 27.778  
KPX upsilon tie 27.778  
KPX phi tie 83.333  
KPX chi tie 55.556  
KPX psi tie 111.111  
KPX epsilon tie 83.333  
KPX theta1 tie 83.333  
KPX rho1 tie 83.333  
KPX sigma1 tie 83.333  
KPX phi1 tie 83.333  
KPX slash Delta -55.556  
KPX slash A -55.556  
KPX slash M -55.556  
KPX slash N -55.556  
KPX slash Y 55.556  
KPX slash Z -55.556  
KPX partialdiff tie 83.333  
KPX A tie 138.889  
KPX B tie 83.333  
KPX C slash -27.778  
KPX C comma -55.556  
KPX C period -55.556  
KPX C tie 83.333  
KPX D tie 55.556  
KPX E tie 83.333  
KPX F slash -55.556  
KPX F comma -111.111  
KPX F period -111.111  
KPX F tie 83.333  
KPX G tie 83.333  
KPX H slash -55.556  
KPX H comma -55.556  
KPX H period -55.556  
KPX H tie 55.556  
KPX I tie 111.111  
KPX J slash -55.556  
KPX J comma -111.111

KPX J period -111.111  
KPX J tie 166.667  
KPX K slash -55.556  
KPX K comma -55.556  
KPX K period -55.556  
KPX K tie 55.556  
KPX L tie 27.778  
KPX M slash -55.556  
KPX M comma -55.556  
KPX M period -55.556  
KPX M tie 83.333  
KPX N slash -83.333  
KPX N slash -27.778  
KPX N comma -55.556  
KPX N period -55.556  
KPX N tie 83.333  
KPX O tie 83.333  
KPX P slash -55.556  
KPX P comma -111.111  
KPX P period -111.111  
KPX P tie 83.333  
KPX Q tie 83.333  
KPX R tie 83.333  
KPX S slash -55.556  
KPX S comma -55.556  
KPX S period -55.556  
KPX S tie 83.333  
KPX T slash -27.778  
KPX T comma -55.556  
KPX T period -55.556  
KPX T tie 83.333  
KPX U comma -111.111  
KPX U period -111.111  
KPX U slash -55.556  
KPX U tie 27.778  
KPX V comma -166.667  
KPX V period -166.667  
KPX V slash -111.111  
KPX W comma -166.667  
KPX W period -166.667  
KPX W slash -111.111  
KPX X slash -83.333  
KPX X slash -27.778  
KPX X comma -55.556  
KPX X period -55.556  
KPX X tie 83.333  
KPX Y comma -166.667  
KPX Y period -166.667

KPX Y slash -111.111  
KPX Z slash -55.556  
KPX Z comma -55.556  
KPX Z period -55.556  
KPX Z tie 83.333  
KPX lscript tie 111.111  
KPX c tie 55.556  
KPX d Y 55.556  
KPX d Z -55.556  
KPX d j -111.111  
KPX d f -166.667  
KPX d tie 166.667  
KPX e tie 55.556  
KPX f comma -55.556  
KPX f period -55.556  
KPX f tie 166.667  
KPX g tie 27.778  
KPX h tie -27.778  
KPX j comma -55.556  
KPX j period -55.556  
KPX l tie 83.333  
KPX o tie 55.556  
KPX p tie 83.333  
KPX q tie 83.333  
KPX r comma -55.556  
KPX r period -55.556  
KPX r tie 55.556  
KPX s tie 55.556  
KPX t tie 83.333  
KPX u tie 27.778  
KPX v tie 27.778  
KPX w tie 83.333  
KPX x tie 27.778  
KPX y tie 55.556  
KPX z tie 55.556  
KPX dotlessi tie 27.778  
KPX dotlessj tie 83.333  
KPX weierstrass tie 111.111  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Thu Mar 15 08:58:00 1990  
Comment UniqueID 28352  
Comment VMusage 26389 33281  
FontName Helvetica  
FullName Helvetica

FamilyName Helvetica

Weight Medium

ItalicAngle 0

IsFixedPitch false

FontBBox -166 -225 1000 931

UnderlinePosition -100

UnderlineThickness 50

Version 001.006

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 278 ; N exclam ; B 90 0 187 718 ;

C 34 ; WX 355 ; N quotedbl ; B 70 463 285 718 ;

C 35 ; WX 556 ; N numbersign ; B 28 0 529 688 ;

C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;

C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;

C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;

C 39 ; WX 222 ; N quoteright ; B 53 463 157 718 ;

C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;

C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;

C 42 ; WX 389 ; N asterisk ; B 39 431 349 718 ;

C 43 ; WX 584 ; N plus ; B 39 0 545 505 ;

C 44 ; WX 278 ; N comma ; B 87 -147 191 106 ;

C 45 ; WX 333 ; N hyphen ; B 44 232 289 322 ;

C 46 ; WX 278 ; N period ; B 87 0 191 106 ;

C 47 ; WX 278 ; N slash ; B -17 -19 295 737 ;

C 48 ; WX 556 ; N zero ; B 37 -19 519 703 ;

C 49 ; WX 556 ; N one ; B 101 0 359 703 ;

C 50 ; WX 556 ; N two ; B 26 0 507 703 ;

C 51 ; WX 556 ; N three ; B 34 -19 522 703 ;

C 52 ; WX 556 ; N four ; B 25 0 523 703 ;

C 53 ; WX 556 ; N five ; B 32 -19 514 688 ;

C 54 ; WX 556 ; N six ; B 38 -19 518 703 ;

C 55 ; WX 556 ; N seven ; B 37 0 523 688 ;

C 56 ; WX 556 ; N eight ; B 38 -19 517 703 ;

C 57 ; WX 556 ; N nine ; B 42 -19 514 703 ;

C 58 ; WX 278 ; N colon ; B 87 0 191 516 ;

C 59 ; WX 278 ; N semicolon ; B 87 -147 191 516 ;

C 60 ; WX 584 ; N less ; B 48 11 536 495 ;

C 61 ; WX 584 ; N equal ; B 39 115 545 390 ;

C 62 ; WX 584 ; N greater ; B 48 11 536 495 ;

C 63 ; WX 556 ; N question ; B 56 0 492 727 ;



C 64 ; WX 1015 ; N at ; B 147 -19 868 737 ;  
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;  
C 66 ; WX 667 ; N B ; B 74 0 627 718 ;  
C 67 ; WX 722 ; N C ; B 44 -19 681 737 ;  
C 68 ; WX 722 ; N D ; B 81 0 674 718 ;  
C 69 ; WX 667 ; N E ; B 86 0 616 718 ;  
C 70 ; WX 611 ; N F ; B 86 0 583 718 ;  
C 71 ; WX 778 ; N G ; B 48 -19 704 737 ;  
C 72 ; WX 722 ; N H ; B 77 0 646 718 ;  
C 73 ; WX 278 ; N I ; B 91 0 188 718 ;  
C 74 ; WX 500 ; N J ; B 17 -19 428 718 ;  
C 75 ; WX 667 ; N K ; B 76 0 663 718 ;  
C 76 ; WX 556 ; N L ; B 76 0 537 718 ;  
C 77 ; WX 833 ; N M ; B 73 0 761 718 ;  
C 78 ; WX 722 ; N N ; B 76 0 646 718 ;  
C 79 ; WX 778 ; N O ; B 39 -19 739 737 ;  
C 80 ; WX 667 ; N P ; B 86 0 622 718 ;  
C 81 ; WX 778 ; N Q ; B 39 -56 739 737 ;  
C 82 ; WX 722 ; N R ; B 88 0 684 718 ;  
C 83 ; WX 667 ; N S ; B 49 -19 620 737 ;  
C 84 ; WX 611 ; N T ; B 14 0 597 718 ;  
C 85 ; WX 722 ; N U ; B 79 -19 644 718 ;  
C 86 ; WX 667 ; N V ; B 20 0 647 718 ;  
C 87 ; WX 944 ; N W ; B 16 0 928 718 ;  
C 88 ; WX 667 ; N X ; B 19 0 648 718 ;  
C 89 ; WX 667 ; N Y ; B 14 0 653 718 ;  
C 90 ; WX 611 ; N Z ; B 23 0 588 718 ;  
C 91 ; WX 278 ; N bracketleft ; B 63 -196 250 722 ;  
C 92 ; WX 278 ; N backslash ; B -17 -19 295 737 ;  
C 93 ; WX 278 ; N bracketright ; B 28 -196 215 722 ;  
C 94 ; WX 469 ; N asciicircum ; B -14 264 483 688 ;  
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;  
C 96 ; WX 222 ; N quoteleft ; B 65 470 169 725 ;  
C 97 ; WX 556 ; N a ; B 36 -15 530 538 ;  
C 98 ; WX 556 ; N b ; B 58 -15 517 718 ;  
C 99 ; WX 500 ; N c ; B 30 -15 477 538 ;  
C 100 ; WX 556 ; N d ; B 35 -15 499 718 ;  
C 101 ; WX 556 ; N e ; B 40 -15 516 538 ;  
C 102 ; WX 278 ; N f ; B 14 0 262 728 ; L i f i ; L l f l ;  
C 103 ; WX 556 ; N g ; B 40 -220 499 538 ;  
C 104 ; WX 556 ; N h ; B 65 0 491 718 ;  
C 105 ; WX 222 ; N i ; B 67 0 155 718 ;  
C 106 ; WX 222 ; N j ; B -16 -210 155 718 ;  
C 107 ; WX 500 ; N k ; B 67 0 501 718 ;  
C 108 ; WX 222 ; N l ; B 67 0 155 718 ;  
C 109 ; WX 833 ; N m ; B 65 0 769 538 ;  
C 110 ; WX 556 ; N n ; B 65 0 491 538 ;  
C 111 ; WX 556 ; N o ; B 35 -14 521 538 ;

C 112 ; WX 556 ; N p ; B 58 -207 517 538 ;  
C 113 ; WX 556 ; N q ; B 35 -207 494 538 ;  
C 114 ; WX 333 ; N r ; B 77 0 332 538 ;  
C 115 ; WX 500 ; N s ; B 32 -15 464 538 ;  
C 116 ; WX 278 ; N t ; B 14 -7 257 669 ;  
C 117 ; WX 556 ; N u ; B 68 -15 489 523 ;  
C 118 ; WX 500 ; N v ; B 8 0 492 523 ;  
C 119 ; WX 722 ; N w ; B 14 0 709 523 ;  
C 120 ; WX 500 ; N x ; B 11 0 490 523 ;  
C 121 ; WX 500 ; N y ; B 11 -214 489 523 ;  
C 122 ; WX 500 ; N z ; B 31 0 469 523 ;  
C 123 ; WX 334 ; N braceleft ; B 42 -196 292 722 ;  
C 124 ; WX 260 ; N bar ; B 94 -19 167 737 ;  
C 125 ; WX 334 ; N braceright ; B 42 -196 292 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 61 180 523 326 ;  
C 161 ; WX 333 ; N exclamdown ; B 118 -195 215 523 ;  
C 162 ; WX 556 ; N cent ; B 51 -115 513 623 ;  
C 163 ; WX 556 ; N sterling ; B 33 -16 539 718 ;  
C 164 ; WX 167 ; N fraction ; B -166 -19 333 703 ;  
C 165 ; WX 556 ; N yen ; B 3 0 553 688 ;  
C 166 ; WX 556 ; N florin ; B -11 -207 501 737 ;  
C 167 ; WX 556 ; N section ; B 43 -191 512 737 ;  
C 168 ; WX 556 ; N currency ; B 28 99 528 603 ;  
C 169 ; WX 191 ; N quotesingle ; B 59 463 132 718 ;  
C 170 ; WX 333 ; N quotedblleft ; B 38 470 307 725 ;  
C 171 ; WX 556 ; N guillemotleft ; B 97 108 459 446 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 88 108 245 446 ;  
C 173 ; WX 333 ; N guilsinglright ; B 88 108 245 446 ;  
C 174 ; WX 500 ; N fi ; B 14 0 434 728 ;  
C 175 ; WX 500 ; N fl ; B 14 0 432 728 ;  
C 177 ; WX 556 ; N endash ; B 0 240 556 313 ;  
C 178 ; WX 556 ; N dagger ; B 43 -159 514 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 43 -159 514 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 77 190 202 315 ;  
C 182 ; WX 537 ; N paragraph ; B 18 -173 497 718 ;  
C 183 ; WX 350 ; N bullet ; B 18 202 333 517 ;  
C 184 ; WX 222 ; N quotesinglbase ; B 53 -149 157 106 ;  
C 185 ; WX 333 ; N quotedblbase ; B 26 -149 295 106 ;  
C 186 ; WX 333 ; N quotedblright ; B 26 463 295 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 97 108 459 446 ;  
C 188 ; WX 1000 ; N ellipsis ; B 115 0 885 106 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 703 ;  
C 191 ; WX 611 ; N questiondown ; B 91 -201 527 525 ;  
C 193 ; WX 333 ; N grave ; B 14 593 211 734 ;  
C 194 ; WX 333 ; N acute ; B 122 593 319 734 ;  
C 195 ; WX 333 ; N circumflex ; B 21 593 312 734 ;  
C 196 ; WX 333 ; N tilde ; B -4 606 337 722 ;  
C 197 ; WX 333 ; N macron ; B 10 627 323 684 ;

C 198 ; WX 333 ; N breve ; B 13 595 321 731 ;  
C 199 ; WX 333 ; N dotaccent ; B 121 604 212 706 ;  
C 200 ; WX 333 ; N dieresis ; B 40 604 293 706 ;  
C 202 ; WX 333 ; N ring ; B 75 572 259 756 ;  
C 203 ; WX 333 ; N cedilla ; B 45 -225 259 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 31 593 409 734 ;  
C 206 ; WX 333 ; N ogonek ; B 73 -225 287 0 ;  
C 207 ; WX 333 ; N caron ; B 21 593 312 734 ;  
C 208 ; WX 1000 ; N emdash ; B 0 240 1000 313 ;  
C 225 ; WX 1000 ; N AE ; B 8 0 951 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 24 304 346 737 ;  
C 232 ; WX 556 ; N Lslash ; B -20 0 537 718 ;  
C 233 ; WX 778 ; N Oslash ; B 39 -19 740 737 ;  
C 234 ; WX 1000 ; N OE ; B 36 -19 965 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 25 304 341 737 ;  
C 241 ; WX 889 ; N ae ; B 36 -15 847 538 ;  
C 245 ; WX 278 ; N dotlessi ; B 95 0 183 523 ;  
C 248 ; WX 222 ; N lslash ; B -20 0 242 718 ;  
C 249 ; WX 611 ; N oslash ; B 28 -22 537 545 ;  
C 250 ; WX 944 ; N oe ; B 35 -15 902 538 ;  
C 251 ; WX 611 ; N germandbls ; B 67 -15 571 728 ;  
C -1 ; WX 611 ; N Zcaron ; B 23 0 588 929 ;  
C -1 ; WX 500 ; N ccedilla ; B 30 -225 477 538 ;  
C -1 ; WX 500 ; N ydieresis ; B 11 -214 489 706 ;  
C -1 ; WX 556 ; N atilde ; B 36 -15 530 722 ;  
C -1 ; WX 278 ; N icircumflex ; B -6 0 285 734 ;  
C -1 ; WX 333 ; N threesuperior ; B 5 270 325 703 ;  
C -1 ; WX 556 ; N ecircumflex ; B 40 -15 516 734 ;  
C -1 ; WX 556 ; N thorn ; B 58 -207 517 718 ;  
C -1 ; WX 556 ; N egrave ; B 40 -15 516 734 ;  
C -1 ; WX 333 ; N twosuperior ; B 4 281 323 703 ;  
C -1 ; WX 556 ; N eacute ; B 40 -15 516 734 ;  
C -1 ; WX 556 ; N otilde ; B 35 -14 521 722 ;  
C -1 ; WX 667 ; N Aacute ; B 14 0 654 929 ;  
C -1 ; WX 556 ; N ocircumflex ; B 35 -14 521 734 ;  
C -1 ; WX 500 ; N yacute ; B 11 -214 489 734 ;  
C -1 ; WX 556 ; N udieresis ; B 68 -15 489 706 ;  
C -1 ; WX 834 ; N threequarters ; B 45 -19 810 703 ;  
C -1 ; WX 556 ; N acircumflex ; B 36 -15 530 734 ;  
C -1 ; WX 722 ; N Eth ; B 0 0 674 718 ;  
C -1 ; WX 556 ; N edieresis ; B 40 -15 516 706 ;  
C -1 ; WX 556 ; N ugrave ; B 68 -15 489 734 ;  
C -1 ; WX 1000 ; N trademark ; B 46 306 903 718 ;  
C -1 ; WX 556 ; N ograve ; B 35 -14 521 734 ;  
C -1 ; WX 500 ; N scaron ; B 32 -15 464 734 ;  
C -1 ; WX 278 ; N Idieresis ; B 13 0 266 901 ;  
C -1 ; WX 556 ; N uacute ; B 68 -15 489 734 ;  
C -1 ; WX 556 ; N agrave ; B 36 -15 530 734 ;

C -1 ; WX 556 ; N tilde ; B 65 0 491 722 ;  
C -1 ; WX 556 ; N aring ; B 36 -15 530 756 ;  
C -1 ; WX 500 ; N zcaron ; B 31 0 469 734 ;  
C -1 ; WX 278 ; N Icircumflex ; B -6 0 285 929 ;  
C -1 ; WX 722 ; N Ntilde ; B 76 0 646 917 ;  
C -1 ; WX 556 ; N ucircumflex ; B 68 -15 489 734 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 616 929 ;  
C -1 ; WX 278 ; N Iacute ; B 91 0 292 929 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -225 681 737 ;  
C -1 ; WX 778 ; N Odieresis ; B 39 -19 739 901 ;  
C -1 ; WX 667 ; N Scaron ; B 49 -19 620 929 ;  
C -1 ; WX 667 ; N Edieresis ; B 86 0 616 901 ;  
C -1 ; WX 278 ; N Igrave ; B -13 0 188 929 ;  
C -1 ; WX 556 ; N adieresis ; B 36 -15 530 706 ;  
C -1 ; WX 778 ; N Ograve ; B 39 -19 739 929 ;  
C -1 ; WX 667 ; N Egrave ; B 86 0 616 929 ;  
C -1 ; WX 667 ; N Ydieresis ; B 14 0 653 901 ;  
C -1 ; WX 737 ; N registered ; B -14 -19 752 737 ;  
C -1 ; WX 778 ; N Otilde ; B 39 -19 739 917 ;  
C -1 ; WX 834 ; N onequarter ; B 73 -19 756 703 ;  
C -1 ; WX 722 ; N Ugrave ; B 79 -19 644 929 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 79 -19 644 929 ;  
C -1 ; WX 667 ; N Thorn ; B 86 0 622 718 ;  
C -1 ; WX 584 ; N divide ; B 39 -19 545 524 ;  
C -1 ; WX 667 ; N Atilde ; B 14 0 654 917 ;  
C -1 ; WX 722 ; N Uacute ; B 79 -19 644 929 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 39 -19 739 929 ;  
C -1 ; WX 584 ; N logicalnot ; B 39 108 545 390 ;  
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;  
C -1 ; WX 278 ; N idieresis ; B 13 0 266 706 ;  
C -1 ; WX 278 ; N iacute ; B 95 0 292 734 ;  
C -1 ; WX 556 ; N aacute ; B 36 -15 530 734 ;  
C -1 ; WX 584 ; N plusminus ; B 39 0 545 506 ;  
C -1 ; WX 584 ; N multiply ; B 39 0 545 506 ;  
C -1 ; WX 722 ; N Udieresis ; B 79 -19 644 901 ;  
C -1 ; WX 584 ; N minus ; B 39 216 545 289 ;  
C -1 ; WX 333 ; N onesuperior ; B 43 281 222 703 ;  
C -1 ; WX 667 ; N Eacute ; B 86 0 616 929 ;  
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;  
C -1 ; WX 737 ; N copyright ; B -14 -19 752 737 ;  
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;  
C -1 ; WX 556 ; N odieresis ; B 35 -14 521 706 ;  
C -1 ; WX 556 ; N oacute ; B 35 -14 521 734 ;  
C -1 ; WX 400 ; N degree ; B 54 411 346 703 ;  
C -1 ; WX 278 ; N igrave ; B -13 0 184 734 ;  
C -1 ; WX 556 ; N mu ; B 68 -207 489 523 ;  
C -1 ; WX 778 ; N Oacute ; B 39 -19 739 929 ;  
C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;

C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;  
C -1 ; WX 667 ; N Yacute ; B 14 0 653 929 ;  
C -1 ; WX 260 ; N brokenbar ; B 94 -19 167 737 ;  
C -1 ; WX 834 ; N onehalf ; B 43 -19 773 703 ;  
EndCharMetrics  
StartKernData  
StartKernPairs 250

KPX A y -40  
KPX A w -40  
KPX A v -40  
KPX A u -30  
KPX A Y -100  
KPX A W -50  
KPX A V -70  
KPX A U -50  
KPX A T -120  
KPX A Q -30  
KPX A O -30  
KPX A G -30  
KPX A C -30

KPX B period -20  
KPX B comma -20  
KPX B U -10

KPX C period -30  
KPX C comma -30

KPX D period -70  
KPX D comma -70  
KPX D Y -90  
KPX D W -40  
KPX D V -70  
KPX D A -40

KPX F r -45  
KPX F period -150  
KPX F o -30  
KPX F e -30  
KPX F comma -150  
KPX F a -50  
KPX F A -80

KPX J u -20  
KPX J period -30  
KPX J comma -30  
KPX J a -20

KPX J A -20

KPX K y -50

KPX K u -30

KPX K o -40

KPX K e -40

KPX K O -50

KPX L y -30

KPX L quoteright -160

KPX L quotedblright -140

KPX L Y -140

KPX L W -70

KPX L V -110

KPX L T -110

KPX O period -40

KPX O comma -40

KPX O Y -70

KPX O X -60

KPX O W -30

KPX O V -50

KPX O T -40

KPX O A -20

KPX P period -180

KPX P o -50

KPX P e -50

KPX P comma -180

KPX P a -40

KPX P A -120

KPX Q U -10

KPX R Y -50

KPX R W -30

KPX R V -50

KPX R U -40

KPX R T -30

KPX R O -20

KPX S period -20

KPX S comma -20

KPX T y -120

KPX T w -120

KPX T u -120

KPX T semicolon -20

KPX T r -120  
KPX T period -120  
KPX T o -120  
KPX T hyphen -140  
KPX T e -120  
KPX T comma -120  
KPX T colon -20  
KPX T a -120  
KPX T O -40  
KPX T A -120

KPX U period -40  
KPX U comma -40  
KPX U A -40

KPX V u -70  
KPX V semicolon -40  
KPX V period -125  
KPX V o -80  
KPX V hyphen -80  
KPX V e -80  
KPX V comma -125  
KPX V colon -40  
KPX V a -70  
KPX V O -40  
KPX V G -40  
KPX V A -80

KPX W y -20  
KPX W u -30  
KPX W period -80  
KPX W o -30  
KPX W hyphen -40  
KPX W e -30  
KPX W comma -80  
KPX W a -40  
KPX W O -20  
KPX W A -50

KPX Y u -110  
KPX Y semicolon -60  
KPX Y period -140  
KPX Y o -140  
KPX Y i -20  
KPX Y hyphen -140  
KPX Y e -140  
KPX Y comma -140  
KPX Y colon -60

KPX Y a -140  
KPX Y O -85  
KPX Y A -110

KPX a y -30  
KPX a w -20  
KPX a v -20

KPX b y -20  
KPX b v -20  
KPX b u -20  
KPX b period -40  
KPX b l -20  
KPX b comma -40  
KPX b b -10

KPX c k -20  
KPX c comma -15

KPX colon space -50

KPX comma quoteright -100  
KPX comma quotedblright -100

KPX e y -20  
KPX e x -30  
KPX e w -20  
KPX e v -30  
KPX e period -15  
KPX e comma -15

KPX f quoteright 50  
KPX f quotedblright 60  
KPX f period -30  
KPX f o -30  
KPX f e -30  
KPX f dotlessi -28  
KPX f comma -30  
KPX f a -30

KPX g r -10

KPX h y -30

KPX k o -20  
KPX k e -20

KPX m y -15



KPX m u -10

KPX n y -15

KPX n v -20

KPX n u -10

KPX o y -30

KPX o x -30

KPX o w -15

KPX o v -15

KPX o period -40

KPX o comma -40

KPX oslash z -55

KPX oslash y -70

KPX oslash x -85

KPX oslash w -70

KPX oslash v -70

KPX oslash u -55

KPX oslash t -55

KPX oslash s -55

KPX oslash r -55

KPX oslash q -55

KPX oslash period -95

KPX oslash p -55

KPX oslash o -55

KPX oslash n -55

KPX oslash m -55

KPX oslash l -55

KPX oslash k -55

KPX oslash j -55

KPX oslash i -55

KPX oslash h -55

KPX oslash g -55

KPX oslash f -55

KPX oslash e -55

KPX oslash d -55

KPX oslash comma -95

KPX oslash c -55

KPX oslash b -55

KPX oslash a -55

KPX p y -30

KPX p period -35

KPX p comma -35

KPX period space -60

KPX period quoteright -100

KPX period quotedblright -100

KPX quotedblright space -40

KPX quoteleft quoteleft -57

KPX quoteright space -70

KPX quoteright s -50

KPX quoteright r -50

KPX quoteright quoteright -57

KPX quoteright d -50

KPX r y 30

KPX r v 30

KPX r u 15

KPX r t 40

KPX r semicolon 30

KPX r period -50

KPX r p 30

KPX r n 25

KPX r m 25

KPX r l 15

KPX r k 15

KPX r i 15

KPX r comma -50

KPX r colon 30

KPX r a -10

KPX s w -30

KPX s period -15

KPX s comma -15

KPX semicolon space -50

KPX space quoteleft -60

KPX space quotedblleft -30

KPX space Y -90

KPX space W -40

KPX space V -50

KPX space T -50

KPX v period -80

KPX v o -25

KPX v e -25

KPX v comma -80

KPX v a -25

KPX w period -60

KPX w o -10  
KPX w e -10  
KPX w comma -60  
KPX w a -15

KPX x e -30

KPX y period -100  
KPX y o -20  
KPX y e -20  
KPX y comma -100  
KPX y a -20

KPX z o -15  
KPX z e -15

EndKernPairs  
EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 167 195 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 167 195 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 167 195 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 167 195 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 195 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 167 195 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 167 195 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 167 195 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 195 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -27 195 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -27 195 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -27 195 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 195 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 205 195 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 195 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 195 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 195 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 195 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 195 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 167 195 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 195 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 195 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 195 195 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 195 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 167 195 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 167 195 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 195 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;

CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 102 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 84 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 102 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 112 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 112 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 84 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 112 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 112 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 112 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 112 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 84 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Fri Dec 28 16:35:46 1990

Comment UniqueID 33936

Comment VMusage 34559 41451

FontName ZapfChancery-MediumItalic

FullName ITC Zapf Chancery Medium Italic

FamilyName ITC Zapf Chancery

Weight Medium

ItalicAngle -14

IsFixedPitch false

FontBBox -181 -314 1065 831

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. ITC Zapf Chancery is a registered trademark of International Typeface Corporation.

EncodingScheme AdobeStandardEncoding

CapHeight 708  
XHeight 438  
Ascender 714  
Descender -314  
StartCharMetrics 228  
C 32 ; WX 220 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 280 ; N exclam ; B 119 -14 353 610 ;  
C 34 ; WX 220 ; N quotedbl ; B 120 343 333 610 ;  
C 35 ; WX 440 ; N numbersign ; B 83 0 521 594 ;  
C 36 ; WX 440 ; N dollar ; B 60 -144 508 709 ;  
C 37 ; WX 680 ; N percent ; B 132 -160 710 700 ;  
C 38 ; WX 780 ; N ampersand ; B 126 -16 915 610 ;  
C 39 ; WX 240 ; N quoteright ; B 168 343 338 610 ;  
C 40 ; WX 260 ; N parenleft ; B 96 -216 411 664 ;  
C 41 ; WX 220 ; N parenright ; B -13 -216 302 664 ;  
C 42 ; WX 420 ; N asterisk ; B 139 263 479 610 ;  
C 43 ; WX 520 ; N plus ; B 117 0 543 426 ;  
C 44 ; WX 220 ; N comma ; B 25 -140 213 148 ;  
C 45 ; WX 280 ; N hyphen ; B 69 190 334 248 ;  
C 46 ; WX 220 ; N period ; B 102 -14 228 128 ;  
C 47 ; WX 340 ; N slash ; B 74 -16 458 610 ;  
C 48 ; WX 440 ; N zero ; B 79 -16 538 610 ;  
C 49 ; WX 440 ; N one ; B 41 0 428 610 ;  
C 50 ; WX 440 ; N two ; B 17 -16 485 610 ;  
C 51 ; WX 440 ; N three ; B 1 -16 485 610 ;  
C 52 ; WX 440 ; N four ; B 77 -35 499 610 ;  
C 53 ; WX 440 ; N five ; B 60 -16 595 679 ;  
C 54 ; WX 440 ; N six ; B 90 -16 556 610 ;  
C 55 ; WX 440 ; N seven ; B 157 -33 561 645 ;  
C 56 ; WX 440 ; N eight ; B 65 -16 529 610 ;  
C 57 ; WX 440 ; N nine ; B 32 -16 517 610 ;  
C 58 ; WX 260 ; N colon ; B 98 -14 296 438 ;  
C 59 ; WX 240 ; N semicolon ; B 29 -140 299 438 ;  
C 60 ; WX 520 ; N less ; B 139 0 527 468 ;  
C 61 ; WX 520 ; N equal ; B 117 86 543 340 ;  
C 62 ; WX 520 ; N greater ; B 139 0 527 468 ;  
C 63 ; WX 380 ; N question ; B 150 -14 455 610 ;  
C 64 ; WX 700 ; N at ; B 127 -16 753 610 ;  
C 65 ; WX 620 ; N A ; B 13 -16 697 632 ;  
C 66 ; WX 600 ; N B ; B 85 -6 674 640 ;  
C 67 ; WX 520 ; N C ; B 93 -16 631 610 ;  
C 68 ; WX 700 ; N D ; B 86 -6 768 640 ;  
C 69 ; WX 620 ; N E ; B 91 -12 709 618 ;  
C 70 ; WX 580 ; N F ; B 120 -118 793 629 ;  
C 71 ; WX 620 ; N G ; B 148 -242 709 610 ;  
C 72 ; WX 680 ; N H ; B 18 -16 878 708 ;  
C 73 ; WX 380 ; N I ; B 99 0 504 594 ;  
C 74 ; WX 400 ; N J ; B -14 -147 538 594 ;

C 75 ; WX 660 ; N K ; B 53 -153 844 610 ;  
C 76 ; WX 580 ; N L ; B 53 -16 657 610 ;  
C 77 ; WX 840 ; N M ; B 58 -16 1020 722 ;  
C 78 ; WX 700 ; N N ; B 85 -168 915 708 ;  
C 79 ; WX 600 ; N O ; B 94 -16 660 610 ;  
C 80 ; WX 540 ; N P ; B 42 0 658 628 ;  
C 81 ; WX 600 ; N Q ; B 84 -177 775 610 ;  
C 82 ; WX 600 ; N R ; B 58 -168 805 640 ;  
C 83 ; WX 460 ; N S ; B 45 -81 558 610 ;  
C 84 ; WX 500 ; N T ; B 63 0 744 667 ;  
C 85 ; WX 740 ; N U ; B 126 -16 792 617 ;  
C 86 ; WX 640 ; N V ; B 124 -16 810 714 ;  
C 87 ; WX 880 ; N W ; B 94 -16 1046 723 ;  
C 88 ; WX 560 ; N X ; B -30 -16 699 610 ;  
C 89 ; WX 560 ; N Y ; B 41 -168 774 647 ;  
C 90 ; WX 620 ; N Z ; B 42 -19 669 624 ;  
C 91 ; WX 240 ; N bracketleft ; B -13 -207 405 655 ;  
C 92 ; WX 480 ; N backslash ; B 140 -16 524 610 ;  
C 93 ; WX 320 ; N bracketright ; B -27 -207 391 655 ;  
C 94 ; WX 520 ; N asciicircum ; B 132 239 532 594 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 240 ; N quoteleft ; B 169 343 339 610 ;  
C 97 ; WX 420 ; N a ; B 92 -15 485 438 ;  
C 98 ; WX 420 ; N b ; B 82 -23 492 714 ;  
C 99 ; WX 340 ; N c ; B 87 -14 406 438 ;  
C 100 ; WX 440 ; N d ; B 102 -14 651 714 ;  
C 101 ; WX 340 ; N e ; B 87 -14 403 438 ;  
C 102 ; WX 320 ; N f ; B -119 -314 547 714 ; L i f i ; L l f l ;  
C 103 ; WX 400 ; N g ; B -108 -314 503 438 ;  
C 104 ; WX 440 ; N h ; B 55 -14 524 714 ;  
C 105 ; WX 240 ; N i ; B 100 -14 341 635 ;  
C 106 ; WX 220 ; N j ; B -112 -314 332 635 ;  
C 107 ; WX 440 ; N k ; B 87 -184 628 714 ;  
C 108 ; WX 240 ; N l ; B 102 -14 480 714 ;  
C 109 ; WX 620 ; N m ; B 86 -14 704 438 ;  
C 110 ; WX 460 ; N n ; B 101 -14 544 438 ;  
C 111 ; WX 400 ; N o ; B 87 -14 449 438 ;  
C 112 ; WX 440 ; N p ; B -23 -314 484 432 ;  
C 113 ; WX 400 ; N q ; B 87 -300 490 510 ;  
C 114 ; WX 300 ; N r ; B 101 -14 424 438 ;  
C 115 ; WX 320 ; N s ; B 46 -14 403 438 ;  
C 116 ; WX 320 ; N t ; B 106 -14 426 539 ;  
C 117 ; WX 460 ; N u ; B 102 -14 528 438 ;  
C 118 ; WX 440 ; N v ; B 87 -14 533 488 ;  
C 119 ; WX 680 ; N w ; B 87 -14 782 488 ;  
C 120 ; WX 420 ; N x ; B 70 -195 589 438 ;  
C 121 ; WX 400 ; N y ; B -24 -314 483 438 ;  
C 122 ; WX 440 ; N z ; B 26 -14 508 445 ;

C 123 ; WX 240 ; N braceleft ; B 55 -207 383 655 ;  
C 124 ; WX 520 ; N bar ; B 320 -16 378 714 ;  
C 125 ; WX 240 ; N braceright ; B -10 -207 318 655 ;  
C 126 ; WX 520 ; N asciitilde ; B 123 186 539 320 ;  
C 161 ; WX 280 ; N exclamdown ; B 72 -186 306 438 ;  
C 162 ; WX 440 ; N cent ; B 122 -134 476 543 ;  
C 163 ; WX 440 ; N sterling ; B -16 -52 506 610 ;  
C 164 ; WX 60 ; N fraction ; B -181 -16 320 610 ;  
C 165 ; WX 440 ; N yen ; B -1 -168 613 647 ;  
C 166 ; WX 440 ; N florin ; B -64 -314 582 610 ;  
C 167 ; WX 420 ; N section ; B 53 -215 514 610 ;  
C 168 ; WX 440 ; N currency ; B 50 85 474 509 ;  
C 169 ; WX 160 ; N quotesingle ; B 145 343 215 610 ;  
C 170 ; WX 340 ; N quotedblleft ; B 169 343 464 610 ;  
C 171 ; WX 340 ; N guillemotleft ; B 98 24 356 414 ;  
C 172 ; WX 240 ; N guilsinglleft ; B 98 24 258 414 ;  
C 173 ; WX 260 ; N guilsinglright ; B 106 24 266 414 ;  
C 174 ; WX 520 ; N fi ; B -124 -314 605 714 ;  
C 175 ; WX 520 ; N fl ; B -124 -314 670 714 ;  
C 177 ; WX 500 ; N endash ; B 51 199 565 239 ;  
C 178 ; WX 460 ; N dagger ; B 138 -37 568 610 ;  
C 179 ; WX 480 ; N daggerdbl ; B 138 -59 533 610 ;  
C 180 ; WX 220 ; N periodcentered ; B 139 208 241 310 ;  
C 182 ; WX 500 ; N paragraph ; B 105 -199 638 594 ;  
C 183 ; WX 600 ; N bullet ; B 228 149 524 445 ;  
C 184 ; WX 180 ; N quotesinglbase ; B 21 -121 191 146 ;  
C 185 ; WX 280 ; N quotedblbase ; B -14 -121 281 146 ;  
C 186 ; WX 360 ; N quotedblright ; B 158 343 453 610 ;  
C 187 ; WX 380 ; N guillemotright ; B 117 24 375 414 ;  
C 188 ; WX 1000 ; N ellipsis ; B 124 -14 916 128 ;  
C 189 ; WX 960 ; N perthousand ; B 112 -160 1005 700 ;  
C 191 ; WX 400 ; N questiondown ; B 82 -186 387 438 ;  
C 193 ; WX 220 ; N grave ; B 193 492 339 659 ;  
C 194 ; WX 300 ; N acute ; B 265 492 422 659 ;  
C 195 ; WX 340 ; N circumflex ; B 223 482 443 649 ;  
C 196 ; WX 440 ; N tilde ; B 243 543 522 619 ;  
C 197 ; WX 440 ; N macron ; B 222 544 465 578 ;  
C 198 ; WX 440 ; N breve ; B 253 522 501 631 ;  
C 199 ; WX 220 ; N dotaccent ; B 236 522 328 610 ;  
C 200 ; WX 360 ; N dieresis ; B 243 522 469 610 ;  
C 202 ; WX 300 ; N ring ; B 240 483 416 659 ;  
C 203 ; WX 300 ; N cedilla ; B 12 -191 184 6 ;  
C 205 ; WX 400 ; N hungarumlaut ; B 208 492 495 659 ;  
C 206 ; WX 280 ; N ogonek ; B 38 -191 233 6 ;  
C 207 ; WX 340 ; N caron ; B 254 492 474 659 ;  
C 208 ; WX 1000 ; N emdash ; B 51 199 1065 239 ;  
C 225 ; WX 740 ; N AE ; B -21 -16 799 594 ;  
C 227 ; WX 260 ; N ordfeminine ; B 111 338 386 610 ;

C 232 ; WX 580 ; N Lslash ; B 49 -16 657 610 ;  
C 233 ; WX 660 ; N Oslash ; B 83 -78 751 672 ;  
C 234 ; WX 820 ; N OE ; B 63 -16 909 610 ;  
C 235 ; WX 260 ; N ordmasculine ; B 128 339 373 610 ;  
C 241 ; WX 540 ; N ae ; B 67 -14 624 468 ;  
C 245 ; WX 240 ; N dotlessi ; B 100 -14 306 438 ;  
C 248 ; WX 300 ; N lslash ; B 121 -14 515 714 ;  
C 249 ; WX 440 ; N oslash ; B 46 -64 540 488 ;  
C 250 ; WX 560 ; N oe ; B 78 -14 628 438 ;  
C 251 ; WX 420 ; N germandbls ; B -127 -314 542 714 ;  
C -1 ; WX 340 ; N ecircumflex ; B 87 -14 433 649 ;  
C -1 ; WX 340 ; N edieresis ; B 87 -14 449 610 ;  
C -1 ; WX 420 ; N aacute ; B 92 -15 492 659 ;  
C -1 ; WX 740 ; N registered ; B 137 -16 763 610 ;  
C -1 ; WX 240 ; N icircumflex ; B 100 -14 363 649 ;  
C -1 ; WX 460 ; N udieresis ; B 102 -14 528 610 ;  
C -1 ; WX 400 ; N ograve ; B 87 -14 449 659 ;  
C -1 ; WX 460 ; N uacute ; B 102 -14 528 659 ;  
C -1 ; WX 460 ; N ucircumflex ; B 102 -14 528 649 ;  
C -1 ; WX 620 ; N Aacute ; B 13 -16 702 821 ;  
C -1 ; WX 240 ; N igrave ; B 100 -14 306 659 ;  
C -1 ; WX 380 ; N Icircumflex ; B 99 0 504 821 ;  
C -1 ; WX 340 ; N ccedilla ; B 62 -191 406 438 ;  
C -1 ; WX 420 ; N adieresis ; B 92 -15 485 610 ;  
C -1 ; WX 620 ; N Ecircumflex ; B 91 -12 709 821 ;  
C -1 ; WX 320 ; N scaron ; B 46 -14 464 659 ;  
C -1 ; WX 440 ; N thorn ; B -38 -314 505 714 ;  
C -1 ; WX 1000 ; N trademark ; B 127 187 1046 594 ;  
C -1 ; WX 340 ; N egrave ; B 87 -14 403 659 ;  
C -1 ; WX 264 ; N threesuperior ; B 59 234 348 610 ;  
C -1 ; WX 440 ; N zcaron ; B 26 -14 514 659 ;  
C -1 ; WX 420 ; N atilde ; B 92 -15 522 619 ;  
C -1 ; WX 420 ; N aring ; B 92 -15 485 659 ;  
C -1 ; WX 400 ; N ocircumflex ; B 87 -14 453 649 ;  
C -1 ; WX 620 ; N Edieresis ; B 91 -12 709 762 ;  
C -1 ; WX 660 ; N threequarters ; B 39 -16 706 610 ;  
C -1 ; WX 400 ; N ydieresis ; B -24 -314 483 610 ;  
C -1 ; WX 400 ; N yacute ; B -24 -314 483 659 ;  
C -1 ; WX 240 ; N iacute ; B 100 -14 392 659 ;  
C -1 ; WX 620 ; N Acircumflex ; B 13 -16 697 821 ;  
C -1 ; WX 740 ; N Uacute ; B 126 -16 792 821 ;  
C -1 ; WX 340 ; N eacute ; B 87 -14 462 659 ;  
C -1 ; WX 600 ; N Ograve ; B 94 -16 660 821 ;  
C -1 ; WX 420 ; N agrave ; B 92 -15 485 659 ;  
C -1 ; WX 740 ; N Udieresis ; B 126 -16 792 762 ;  
C -1 ; WX 420 ; N acircumflex ; B 92 -15 485 649 ;  
C -1 ; WX 380 ; N Igrave ; B 99 0 504 821 ;  
C -1 ; WX 264 ; N twosuperior ; B 72 234 354 610 ;



C -1 ; WX 740 ; N Ugrave ; B 126 -16 792 821 ;  
 C -1 ; WX 660 ; N onequarter ; B 56 -16 702 610 ;  
 C -1 ; WX 740 ; N Ucircumflex ; B 126 -16 792 821 ;  
 C -1 ; WX 460 ; N Scaron ; B 45 -81 594 831 ;  
 C -1 ; WX 380 ; N Idieresis ; B 99 0 519 762 ;  
 C -1 ; WX 240 ; N idieresis ; B 100 -14 369 610 ;  
 C -1 ; WX 620 ; N Egrave ; B 91 -12 709 821 ;  
 C -1 ; WX 600 ; N Oacute ; B 94 -16 660 821 ;  
 C -1 ; WX 520 ; N divide ; B 117 -14 543 440 ;  
 C -1 ; WX 620 ; N Atilde ; B 13 -16 702 771 ;  
 C -1 ; WX 620 ; N Aring ; B 13 -16 697 831 ;  
 C -1 ; WX 600 ; N Odieresis ; B 94 -16 660 762 ;  
 C -1 ; WX 620 ; N Adieresis ; B 13 -16 709 762 ;  
 C -1 ; WX 700 ; N Ntilde ; B 85 -168 915 761 ;  
 C -1 ; WX 620 ; N Zcaron ; B 42 -19 669 831 ;  
 C -1 ; WX 540 ; N Thorn ; B 52 0 647 623 ;  
 C -1 ; WX 380 ; N Iacute ; B 99 0 532 821 ;  
 C -1 ; WX 520 ; N plusminus ; B 117 0 543 436 ;  
 C -1 ; WX 520 ; N multiply ; B 133 16 527 410 ;  
 C -1 ; WX 620 ; N Eacute ; B 91 -12 709 821 ;  
 C -1 ; WX 560 ; N Ydieresis ; B 41 -168 774 762 ;  
 C -1 ; WX 264 ; N onesuperior ; B 83 244 311 610 ;  
 C -1 ; WX 460 ; N ugrave ; B 102 -14 528 659 ;  
 C -1 ; WX 520 ; N logicalnot ; B 117 86 543 340 ;  
 C -1 ; WX 460 ; N ntilde ; B 101 -14 544 619 ;  
 C -1 ; WX 600 ; N Otilde ; B 94 -16 660 761 ;  
 C -1 ; WX 400 ; N otilde ; B 87 -14 502 619 ;  
 C -1 ; WX 520 ; N Ccedilla ; B 93 -191 631 610 ;  
 C -1 ; WX 620 ; N Agrave ; B 13 -16 697 821 ;  
 C -1 ; WX 660 ; N onehalf ; B 56 -16 702 610 ;  
 C -1 ; WX 700 ; N Eth ; B 86 -6 768 640 ;  
 C -1 ; WX 400 ; N degree ; B 171 324 457 610 ;  
 C -1 ; WX 560 ; N Yacute ; B 41 -168 774 821 ;  
 C -1 ; WX 600 ; N Ocircumflex ; B 94 -16 660 821 ;  
 C -1 ; WX 400 ; N oacute ; B 87 -14 482 659 ;  
 C -1 ; WX 460 ; N mu ; B 7 -314 523 438 ;  
 C -1 ; WX 520 ; N minus ; B 117 184 543 242 ;  
 C -1 ; WX 400 ; N eth ; B 87 -14 522 714 ;  
 C -1 ; WX 400 ; N odieresis ; B 87 -14 479 610 ;  
 C -1 ; WX 740 ; N copyright ; B 137 -16 763 610 ;  
 C -1 ; WX 520 ; N brokenbar ; B 320 -16 378 714 ;  
 EndCharMetrics  
 StartKernData  
 StartKernPairs 131

KPX A quoteright -40  
 KPX A quotedblright -40  
 KPX A U -10

KPX A T 10  
KPX A Q 10  
KPX A O 10  
KPX A G -30  
KPX A C 20

KPX D period -30  
KPX D comma -20  
KPX D Y 10  
KPX D A -10

KPX F period -40  
KPX F i 10  
KPX F comma -30

KPX G period -20  
KPX G comma -10

KPX J period -20  
KPX J comma -10

KPX K u -20  
KPX K o -20  
KPX K e -20

KPX L y -10  
KPX L quoteright -25  
KPX L quotedblright -25  
KPX L W -10  
KPX L V -20

KPX O period -20  
KPX O comma -10  
KPX O Y 10  
KPX O T 20  
KPX O A -20

KPX P period -50  
KPX P o -10  
KPX P e -10  
KPX P comma -40  
KPX P a -20  
KPX P A -10

KPX Q U -10

KPX R Y 10  
KPX R W 10

KPX R T 20

KPX T o -20

KPX T i 20

KPX T hyphen -20

KPX T h 20

KPX T e -20

KPX T a -20

KPX T O 30

KPX T A 10

KPX V period -100

KPX V o -20

KPX V e -20

KPX V comma -90

KPX V a -20

KPX V O 10

KPX V G -20

KPX W period -50

KPX W o -20

KPX W i 10

KPX W h 10

KPX W e -20

KPX W comma -40

KPX W a -20

KPX W O 10

KPX Y u -20

KPX Y period -50

KPX Y o -50

KPX Y i 10

KPX Y e -40

KPX Y comma -40

KPX Y a -60

KPX b period -30

KPX b l -20

KPX b comma -20

KPX b b -20

KPX c k -10

KPX comma quoteright -70

KPX comma quotedblright -70

KPX d w -20

KPX d v -10

KPX d d -40

KPX e y 10

KPX f quoteright 30

KPX f quotedblright 30

KPX f period -50

KPX f f -50

KPX f e -10

KPX f comma -40

KPX f a -20

KPX g y 10

KPX g period -30

KPX g i 10

KPX g e 10

KPX g comma -20

KPX g a 10

KPX k y 10

KPX k o -10

KPX k e -20

KPX m y 10

KPX m u 10

KPX n y 20

KPX o period -30

KPX o comma -20

KPX p period -30

KPX p p -10

KPX p comma -20

KPX period quoteright -80

KPX period quotedblright -80

KPX quotedblleft quoteleft 20

KPX quotedblleft A 10

KPX quoteleft quoteleft -115

KPX quoteleft A 10

KPX quoteright v 30

KPX quoteright t 20

KPX quoteright s -25

KPX quoteright r 30

KPX quoteright quoteright -115  
KPX quoteright quotedblright 20  
KPX quoteright l 20

KPX r period -50  
KPX r i 10  
KPX r comma -40

KPX s period -20  
KPX s comma -10

KPX v period -30  
KPX v comma -20

KPX w period -30  
KPX w o 10  
KPX w h 20  
KPX w comma -20

EndKernPairs  
EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 280 162 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 240 172 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 240 152 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 250 162 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 260 172 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 180 152 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 230 162 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 180 172 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 170 152 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 220 162 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 110 162 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 60 172 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 50 152 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 100 162 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 210 142 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 160 162 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 130 172 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 120 152 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 150 162 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 90 142 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 120 172 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 310 162 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 260 172 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 260 152 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 270 162 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 220 162 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 170 152 ;

CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 130 172 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 70 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 20 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 10 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 80 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 60 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 40 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex -10 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis -20 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 30 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -30 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -80 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -100 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -40 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 10 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 60 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 10 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 10 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 60 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde -20 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron -10 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 70 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 30 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 20 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 50 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 60 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 0 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 40 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1989, 1990, 1991 Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Tue Sep 17 07:47:21 1991  
Comment UniqueID 36347  
Comment VMusage 31037 39405  
FontName Courier  
FullName Courier  
FamilyName Courier  
Weight Medium  
ItalicAngle 0  
IsFixedPitch true  
FontBBox -28 -250 628 805  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.004  
Notice Copyright (c) 1989, 1990, 1991 Adobe Systems Incorporated. All rights reserved.  
EncodingScheme AdobeStandardEncoding

CapHeight 562  
XHeight 426  
Ascender 629  
Descender -157  
StartCharMetrics 260  
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 600 ; N exclam ; B 236 -15 364 572 ;  
C 34 ; WX 600 ; N quotedbl ; B 187 328 413 562 ;  
C 35 ; WX 600 ; N numbersign ; B 93 -32 507 639 ;  
C 36 ; WX 600 ; N dollar ; B 105 -126 496 662 ;  
C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;  
C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;  
C 39 ; WX 600 ; N quoteright ; B 213 328 376 562 ;  
C 40 ; WX 600 ; N parenleft ; B 269 -108 440 622 ;  
C 41 ; WX 600 ; N parenright ; B 160 -108 331 622 ;  
C 42 ; WX 600 ; N asterisk ; B 116 257 484 607 ;  
C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;  
C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;  
C 45 ; WX 600 ; N hyphen ; B 103 231 497 285 ;  
C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;  
C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;  
C 48 ; WX 600 ; N zero ; B 106 -15 494 622 ;  
C 49 ; WX 600 ; N one ; B 96 0 505 622 ;  
C 50 ; WX 600 ; N two ; B 70 0 471 622 ;  
C 51 ; WX 600 ; N three ; B 75 -15 466 622 ;  
C 52 ; WX 600 ; N four ; B 78 0 500 622 ;  
C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;  
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;  
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;  
C 56 ; WX 600 ; N eight ; B 102 -15 498 622 ;  
C 57 ; WX 600 ; N nine ; B 96 -15 489 622 ;  
C 58 ; WX 600 ; N colon ; B 229 -15 371 385 ;  
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;  
C 60 ; WX 600 ; N less ; B 41 42 519 472 ;  
C 61 ; WX 600 ; N equal ; B 80 138 520 376 ;  
C 62 ; WX 600 ; N greater ; B 66 42 544 472 ;  
C 63 ; WX 600 ; N question ; B 129 -15 492 572 ;  
C 64 ; WX 600 ; N at ; B 77 -15 533 622 ;  
C 65 ; WX 600 ; N A ; B 3 0 597 562 ;  
C 66 ; WX 600 ; N B ; B 43 0 559 562 ;  
C 67 ; WX 600 ; N C ; B 41 -18 540 580 ;  
C 68 ; WX 600 ; N D ; B 43 0 574 562 ;  
C 69 ; WX 600 ; N E ; B 53 0 550 562 ;  
C 70 ; WX 600 ; N F ; B 53 0 545 562 ;  
C 71 ; WX 600 ; N G ; B 31 -18 575 580 ;  
C 72 ; WX 600 ; N H ; B 32 0 568 562 ;  
C 73 ; WX 600 ; N I ; B 96 0 504 562 ;  
C 74 ; WX 600 ; N J ; B 34 -18 566 562 ;

C 75 ; WX 600 ; N K ; B 38 0 582 562 ;  
C 76 ; WX 600 ; N L ; B 47 0 554 562 ;  
C 77 ; WX 600 ; N M ; B 4 0 596 562 ;  
C 78 ; WX 600 ; N N ; B 7 -13 593 562 ;  
C 79 ; WX 600 ; N O ; B 43 -18 557 580 ;  
C 80 ; WX 600 ; N P ; B 79 0 558 562 ;  
C 81 ; WX 600 ; N Q ; B 43 -138 557 580 ;  
C 82 ; WX 600 ; N R ; B 38 0 588 562 ;  
C 83 ; WX 600 ; N S ; B 72 -20 529 580 ;  
C 84 ; WX 600 ; N T ; B 38 0 563 562 ;  
C 85 ; WX 600 ; N U ; B 17 -18 583 562 ;  
C 86 ; WX 600 ; N V ; B -4 -13 604 562 ;  
C 87 ; WX 600 ; N W ; B -3 -13 603 562 ;  
C 88 ; WX 600 ; N X ; B 23 0 577 562 ;  
C 89 ; WX 600 ; N Y ; B 24 0 576 562 ;  
C 90 ; WX 600 ; N Z ; B 86 0 514 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 269 -108 442 622 ;  
C 92 ; WX 600 ; N backslash ; B 118 -80 482 629 ;  
C 93 ; WX 600 ; N bracketright ; B 158 -108 331 622 ;  
C 94 ; WX 600 ; N asciicircum ; B 94 354 506 622 ;  
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 224 328 387 562 ;  
C 97 ; WX 600 ; N a ; B 53 -15 559 441 ;  
C 98 ; WX 600 ; N b ; B 14 -15 575 629 ;  
C 99 ; WX 600 ; N c ; B 66 -15 529 441 ;  
C 100 ; WX 600 ; N d ; B 45 -15 591 629 ;  
C 101 ; WX 600 ; N e ; B 66 -15 548 441 ;  
C 102 ; WX 600 ; N f ; B 114 0 531 629 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 45 -157 566 441 ;  
C 104 ; WX 600 ; N h ; B 18 0 582 629 ;  
C 105 ; WX 600 ; N i ; B 95 0 505 657 ;  
C 106 ; WX 600 ; N j ; B 82 -157 410 657 ;  
C 107 ; WX 600 ; N k ; B 43 0 580 629 ;  
C 108 ; WX 600 ; N l ; B 95 0 505 629 ;  
C 109 ; WX 600 ; N m ; B -5 0 605 441 ;  
C 110 ; WX 600 ; N n ; B 26 0 575 441 ;  
C 111 ; WX 600 ; N o ; B 62 -15 538 441 ;  
C 112 ; WX 600 ; N p ; B 9 -157 555 441 ;  
C 113 ; WX 600 ; N q ; B 45 -157 591 441 ;  
C 114 ; WX 600 ; N r ; B 60 0 559 441 ;  
C 115 ; WX 600 ; N s ; B 80 -15 513 441 ;  
C 116 ; WX 600 ; N t ; B 87 -15 530 561 ;  
C 117 ; WX 600 ; N u ; B 21 -15 562 426 ;  
C 118 ; WX 600 ; N v ; B 10 -10 590 426 ;  
C 119 ; WX 600 ; N w ; B -4 -10 604 426 ;  
C 120 ; WX 600 ; N x ; B 20 0 580 426 ;  
C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;  
C 122 ; WX 600 ; N z ; B 99 0 502 426 ;



C 123 ; WX 600 ; N braceleft ; B 182 -108 437 622 ;  
C 124 ; WX 600 ; N bar ; B 275 -250 326 750 ;  
C 125 ; WX 600 ; N braceright ; B 163 -108 418 622 ;  
C 126 ; WX 600 ; N asciitilde ; B 63 197 540 320 ;  
C 161 ; WX 600 ; N exclamdown ; B 236 -157 364 430 ;  
C 162 ; WX 600 ; N cent ; B 96 -49 500 614 ;  
C 163 ; WX 600 ; N sterling ; B 84 -21 521 611 ;  
C 164 ; WX 600 ; N fraction ; B 92 -57 509 665 ;  
C 165 ; WX 600 ; N yen ; B 26 0 574 562 ;  
C 166 ; WX 600 ; N florin ; B 4 -143 539 622 ;  
C 167 ; WX 600 ; N section ; B 113 -78 488 580 ;  
C 168 ; WX 600 ; N currency ; B 73 58 527 506 ;  
C 169 ; WX 600 ; N quotesingle ; B 259 328 341 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 143 328 471 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 37 70 563 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 149 70 451 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 149 70 451 446 ;  
C 174 ; WX 600 ; N fi ; B 3 0 597 629 ;  
C 175 ; WX 600 ; N fl ; B 3 0 597 629 ;  
C 177 ; WX 600 ; N endash ; B 75 231 525 285 ;  
C 178 ; WX 600 ; N dagger ; B 141 -78 459 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 141 -78 459 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 222 189 378 327 ;  
C 182 ; WX 600 ; N paragraph ; B 50 -78 511 562 ;  
C 183 ; WX 600 ; N bullet ; B 172 130 428 383 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 213 -134 376 100 ;  
C 185 ; WX 600 ; N quotedblbase ; B 143 -134 457 100 ;  
C 186 ; WX 600 ; N quotedblright ; B 143 328 457 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 37 70 563 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 37 -15 563 111 ;  
C 189 ; WX 600 ; N perthousand ; B 3 -15 600 622 ;  
C 191 ; WX 600 ; N questiondown ; B 108 -157 471 430 ;  
C 193 ; WX 600 ; N grave ; B 151 497 378 672 ;  
C 194 ; WX 600 ; N acute ; B 242 497 469 672 ;  
C 195 ; WX 600 ; N circumflex ; B 124 477 476 654 ;  
C 196 ; WX 600 ; N tilde ; B 105 489 503 606 ;  
C 197 ; WX 600 ; N macron ; B 120 525 480 565 ;  
C 198 ; WX 600 ; N breve ; B 153 501 447 609 ;  
C 199 ; WX 600 ; N dotaccent ; B 249 477 352 580 ;  
C 200 ; WX 600 ; N dieresis ; B 148 492 453 595 ;  
C 202 ; WX 600 ; N ring ; B 218 463 382 627 ;  
C 203 ; WX 600 ; N cedilla ; B 224 -151 362 10 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 133 497 540 672 ;  
C 206 ; WX 600 ; N ogonek ; B 227 -151 370 0 ;  
C 207 ; WX 600 ; N caron ; B 124 492 476 669 ;  
C 208 ; WX 600 ; N emdash ; B 0 231 600 285 ;  
C 225 ; WX 600 ; N AE ; B 3 0 550 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 156 249 442 580 ;

C 232 ; WX 600 ; N Lslash ; B 47 0 554 562 ;  
C 233 ; WX 600 ; N Oslash ; B 43 -80 557 629 ;  
C 234 ; WX 600 ; N OE ; B 7 0 567 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 157 249 443 580 ;  
C 241 ; WX 600 ; N ae ; B 19 -15 570 441 ;  
C 245 ; WX 600 ; N dotlessi ; B 95 0 505 426 ;  
C 248 ; WX 600 ; N lslash ; B 95 0 505 629 ;  
C 249 ; WX 600 ; N oslash ; B 62 -80 538 506 ;  
C 250 ; WX 600 ; N oe ; B 19 -15 559 441 ;  
C 251 ; WX 600 ; N germandbls ; B 48 -15 588 629 ;  
C -1 ; WX 600 ; N Odieresis ; B 43 -18 557 731 ;  
C -1 ; WX 600 ; N logicalnot ; B 87 108 513 369 ;  
C -1 ; WX 600 ; N minus ; B 80 232 520 283 ;  
C -1 ; WX 600 ; N merge ; B 160 -15 440 436 ;  
C -1 ; WX 600 ; N degree ; B 123 269 477 622 ;  
C -1 ; WX 600 ; N dectab ; B 18 0 582 227 ;  
C -1 ; WX 600 ; N ll ; B 18 0 567 629 ;  
C -1 ; WX 600 ; N IJ ; B 32 -18 583 562 ;  
C -1 ; WX 600 ; N Eacute ; B 53 0 550 793 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 43 -18 557 775 ;  
C -1 ; WX 600 ; N ucircumflex ; B 21 -15 562 654 ;  
C -1 ; WX 600 ; N left ; B 70 68 530 348 ;  
C -1 ; WX 600 ; N threesuperior ; B 155 240 406 622 ;  
C -1 ; WX 600 ; N up ; B 160 0 440 437 ;  
C -1 ; WX 600 ; N multiply ; B 87 43 515 470 ;  
C -1 ; WX 600 ; N Scaron ; B 72 -20 529 805 ;  
C -1 ; WX 600 ; N tab ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 17 -18 583 775 ;  
C -1 ; WX 600 ; N divide ; B 87 48 513 467 ;  
C -1 ; WX 600 ; N Acircumflex ; B 3 0 597 775 ;  
C -1 ; WX 600 ; N eacute ; B 66 -15 548 672 ;  
C -1 ; WX 600 ; N uacute ; B 21 -15 562 672 ;  
C -1 ; WX 600 ; N Aacute ; B 3 0 597 793 ;  
C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N twosuperior ; B 177 249 424 622 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 53 0 550 775 ;  
C -1 ; WX 600 ; N ntilde ; B 26 0 575 606 ;  
C -1 ; WX 600 ; N down ; B 160 -15 440 426 ;  
C -1 ; WX 600 ; N center ; B 40 14 560 580 ;  
C -1 ; WX 600 ; N onesuperior ; B 172 249 428 622 ;  
C -1 ; WX 600 ; N ij ; B 37 -157 490 657 ;  
C -1 ; WX 600 ; N edieresis ; B 66 -15 548 595 ;  
C -1 ; WX 600 ; N graybox ; B 76 0 525 599 ;  
C -1 ; WX 600 ; N odieresis ; B 62 -15 538 595 ;  
C -1 ; WX 600 ; N Ograve ; B 43 -18 557 793 ;  
C -1 ; WX 600 ; N threequarters ; B 8 -56 593 666 ;  
C -1 ; WX 600 ; N plusminus ; B 87 44 513 558 ;  
C -1 ; WX 600 ; N prescription ; B 27 -15 577 562 ;

C -1 ; WX 600 ; N eth ; B 62 -15 538 629 ;  
C -1 ; WX 600 ; N largebullet ; B 261 220 339 297 ;  
C -1 ; WX 600 ; N egrave ; B 66 -15 548 672 ;  
C -1 ; WX 600 ; N ccedilla ; B 66 -151 529 441 ;  
C -1 ; WX 600 ; N notographic ; B 136 -15 464 572 ;  
C -1 ; WX 600 ; N Udieresis ; B 17 -18 583 731 ;  
C -1 ; WX 600 ; N Gcaron ; B 31 -18 575 805 ;  
C -1 ; WX 600 ; N arrowdown ; B 116 -15 484 608 ;  
C -1 ; WX 600 ; N format ; B 5 -157 56 607 ;  
C -1 ; WX 600 ; N Otilde ; B 43 -18 557 732 ;  
C -1 ; WX 600 ; N Idieresis ; B 96 0 504 731 ;  
C -1 ; WX 600 ; N adieresis ; B 53 -15 559 595 ;  
C -1 ; WX 600 ; N ecircumflex ; B 66 -15 548 654 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 574 562 ;  
C -1 ; WX 600 ; N onequarter ; B 0 -57 600 665 ;  
C -1 ; WX 600 ; N LL ; B 8 0 592 562 ;  
C -1 ; WX 600 ; N agrave ; B 53 -15 559 672 ;  
C -1 ; WX 600 ; N Zcaron ; B 86 0 514 805 ;  
C -1 ; WX 600 ; N Scedilla ; B 72 -151 529 580 ;  
C -1 ; WX 600 ; N Idot ; B 96 0 504 716 ;  
C -1 ; WX 600 ; N Iacute ; B 96 0 504 793 ;  
C -1 ; WX 600 ; N indent ; B 70 68 530 348 ;  
C -1 ; WX 600 ; N Ugrave ; B 17 -18 583 793 ;  
C -1 ; WX 600 ; N scaron ; B 80 -15 513 669 ;  
C -1 ; WX 600 ; N overscore ; B 0 579 600 629 ;  
C -1 ; WX 600 ; N Aring ; B 3 0 597 753 ;  
C -1 ; WX 600 ; N Ccedilla ; B 41 -151 540 580 ;  
C -1 ; WX 600 ; N Igrave ; B 96 0 504 793 ;  
C -1 ; WX 600 ; N brokenbar ; B 275 -175 326 675 ;  
C -1 ; WX 600 ; N Oacute ; B 43 -18 557 793 ;  
C -1 ; WX 600 ; N otilde ; B 62 -15 538 606 ;  
C -1 ; WX 600 ; N Yacute ; B 24 0 576 793 ;  
C -1 ; WX 600 ; N lira ; B 73 -21 521 611 ;  
C -1 ; WX 600 ; N Icircumflex ; B 96 0 504 775 ;  
C -1 ; WX 600 ; N Atilde ; B 3 0 597 732 ;  
C -1 ; WX 600 ; N Uacute ; B 17 -18 583 793 ;  
C -1 ; WX 600 ; N Ydieresis ; B 24 0 576 731 ;  
C -1 ; WX 600 ; N ydieresis ; B 7 -157 592 595 ;  
C -1 ; WX 600 ; N idieresis ; B 95 0 505 595 ;  
C -1 ; WX 600 ; N Adieresis ; B 3 0 597 731 ;  
C -1 ; WX 600 ; N mu ; B 21 -157 562 426 ;  
C -1 ; WX 600 ; N trademark ; B -23 263 623 562 ;  
C -1 ; WX 600 ; N oacute ; B 62 -15 538 672 ;  
C -1 ; WX 600 ; N acircumflex ; B 53 -15 559 654 ;  
C -1 ; WX 600 ; N Agrave ; B 3 0 597 793 ;  
C -1 ; WX 600 ; N return ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N atilde ; B 53 -15 559 606 ;  
C -1 ; WX 600 ; N square ; B 19 0 581 562 ;

C -1 ; WX 600 ; N registered ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N stop ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N udieresis ; B 21 -15 562 595 ;  
C -1 ; WX 600 ; N arrowup ; B 116 0 484 623 ;  
C -1 ; WX 600 ; N igrave ; B 95 0 505 672 ;  
C -1 ; WX 600 ; N Edieresis ; B 53 0 550 731 ;  
C -1 ; WX 600 ; N zcaron ; B 99 0 502 669 ;  
C -1 ; WX 600 ; N arrowboth ; B -28 115 628 483 ;  
C -1 ; WX 600 ; N gcaron ; B 45 -157 566 669 ;  
C -1 ; WX 600 ; N arrowleft ; B -24 115 624 483 ;  
C -1 ; WX 600 ; N aacute ; B 53 -15 559 672 ;  
C -1 ; WX 600 ; N ocircumflex ; B 62 -15 538 654 ;  
C -1 ; WX 600 ; N scedilla ; B 80 -151 513 441 ;  
C -1 ; WX 600 ; N ograve ; B 62 -15 538 672 ;  
C -1 ; WX 600 ; N onehalf ; B 0 -57 611 665 ;  
C -1 ; WX 600 ; N ugrave ; B 21 -15 562 672 ;  
C -1 ; WX 600 ; N Ntilde ; B 7 -13 593 732 ;  
C -1 ; WX 600 ; N iacute ; B 95 0 505 672 ;  
C -1 ; WX 600 ; N arrowright ; B -24 115 624 483 ;  
C -1 ; WX 600 ; N Thorn ; B 79 0 538 562 ;  
C -1 ; WX 600 ; N Egrave ; B 53 0 550 793 ;  
C -1 ; WX 600 ; N thorn ; B -6 -157 555 629 ;  
C -1 ; WX 600 ; N aring ; B 53 -15 559 627 ;  
C -1 ; WX 600 ; N yacute ; B 7 -157 592 672 ;  
C -1 ; WX 600 ; N icircumflex ; B 94 0 505 654 ;

EndCharMetrics

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 20 121 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex -30 121 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis -30 136 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave -30 121 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring -15 126 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 0 126 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 30 121 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 0 121 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 0 136 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 0 121 ;  
CC Gcaron 2 ; PCC G 0 0 ; PCC caron 0 136 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 121 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 0 121 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 0 136 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 121 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 0 126 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 0 121 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 0 121 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 0 136 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 0 121 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 0 126 ;

CC Scaron 2 ; PCC S 0 0 ; PCC caron 30 136 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 30 121 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 0 121 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 0 136 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave -30 121 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 30 121 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 0 136 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 0 136 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 0 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 0 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 0 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 0 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 0 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 0 0 ;  
CC gcaron 2 ; PCC g 0 0 ; PCC caron -30 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -30 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -30 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -30 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 0 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 0 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 0 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 0 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 0 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 0 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 0 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute -10 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -10 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 0 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute -20 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis -10 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 10 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.

Comment Creation Date: Wed Jan 17 21:48:26 1990

Comment UniqueID 27004

Comment VMusage 28489 37622

FontName Symbol

FullName Symbol

FamilyName Symbol

Weight Medium

ItalicAngle 0

IsFixedPitch false

FontBBox -180 -293 1090 1010

UnderlinePosition -98

UnderlineThickness 54

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.

EncodingScheme FontSpecific

StartCharMetrics 189

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 128 -17 240 672 ;  
C 34 ; WX 713 ; N universal ; B 31 0 681 705 ;  
C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;  
C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;  
C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;  
C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;  
C 39 ; WX 439 ; N suchthat ; B 48 -17 414 500 ;  
C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;  
C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;  
C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;  
C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;  
C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;  
C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;  
C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;  
C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;  
C 48 ; WX 500 ; N zero ; B 23 -17 471 685 ;  
C 49 ; WX 500 ; N one ; B 117 0 390 673 ;  
C 50 ; WX 500 ; N two ; B 25 0 475 686 ;  
C 51 ; WX 500 ; N three ; B 39 -17 435 685 ;  
C 52 ; WX 500 ; N four ; B 16 0 469 685 ;  
C 53 ; WX 500 ; N five ; B 29 -17 443 685 ;  
C 54 ; WX 500 ; N six ; B 36 -17 467 685 ;  
C 55 ; WX 500 ; N seven ; B 24 -16 448 673 ;  
C 56 ; WX 500 ; N eight ; B 54 -18 440 685 ;  
C 57 ; WX 500 ; N nine ; B 31 -18 460 685 ;  
C 58 ; WX 278 ; N colon ; B 81 -17 193 460 ;  
C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;  
C 60 ; WX 549 ; N less ; B 26 0 523 522 ;  
C 61 ; WX 549 ; N equal ; B 11 141 537 390 ;  
C 62 ; WX 549 ; N greater ; B 26 0 523 522 ;  
C 63 ; WX 444 ; N question ; B 70 -17 412 686 ;  
C 64 ; WX 549 ; N congruent ; B 11 0 537 475 ;  
C 65 ; WX 722 ; N Alpha ; B 4 0 684 673 ;  
C 66 ; WX 667 ; N Beta ; B 29 0 592 673 ;  
C 67 ; WX 722 ; N Chi ; B -9 0 704 673 ;  
C 68 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C 69 ; WX 611 ; N Epsilon ; B 32 0 617 673 ;  
C 70 ; WX 763 ; N Phi ; B 26 0 741 673 ;

C 71 ; WX 603 ; N Gamma ; B 24 0 609 673 ;  
C 72 ; WX 722 ; N Eta ; B 39 0 729 673 ;  
C 73 ; WX 333 ; N Iota ; B 32 0 316 673 ;  
C 74 ; WX 631 ; N theta1 ; B 18 -18 623 689 ;  
C 75 ; WX 722 ; N Kappa ; B 35 0 722 673 ;  
C 76 ; WX 686 ; N Lambda ; B 6 0 680 688 ;  
C 77 ; WX 889 ; N Mu ; B 28 0 887 673 ;  
C 78 ; WX 722 ; N Nu ; B 29 -8 720 673 ;  
C 79 ; WX 722 ; N Omicron ; B 41 -17 715 685 ;  
C 80 ; WX 768 ; N Pi ; B 25 0 745 673 ;  
C 81 ; WX 741 ; N Theta ; B 41 -17 715 685 ;  
C 82 ; WX 556 ; N Rho ; B 28 0 563 673 ;  
C 83 ; WX 592 ; N Sigma ; B 5 0 589 673 ;  
C 84 ; WX 611 ; N Tau ; B 33 0 607 673 ;  
C 85 ; WX 690 ; N Upsilon ; B -8 0 694 673 ;  
C 86 ; WX 439 ; N sigma1 ; B 40 -233 436 500 ;  
C 87 ; WX 768 ; N Omega ; B 34 0 736 688 ;  
C 88 ; WX 645 ; N Xi ; B 40 0 599 673 ;  
C 89 ; WX 795 ; N Psi ; B 15 0 781 684 ;  
C 90 ; WX 611 ; N Zeta ; B 44 0 636 673 ;  
C 91 ; WX 333 ; N bracketleft ; B 86 -155 299 674 ;  
C 92 ; WX 863 ; N therefore ; B 163 0 701 478 ;  
C 93 ; WX 333 ; N bracketright ; B 33 -155 246 674 ;  
C 94 ; WX 658 ; N perpendicular ; B 15 0 652 674 ;  
C 95 ; WX 500 ; N underscore ; B -2 -252 502 -206 ;  
C 96 ; WX 500 ; N radicalex ; B 480 881 1090 917 ;  
C 97 ; WX 631 ; N alpha ; B 41 -18 622 500 ;  
C 98 ; WX 549 ; N beta ; B 61 -223 515 741 ;  
C 99 ; WX 549 ; N chi ; B 12 -231 522 499 ;  
C 100 ; WX 494 ; N delta ; B 40 -19 481 740 ;  
C 101 ; WX 439 ; N epsilon ; B 22 -19 427 502 ;  
C 102 ; WX 521 ; N phi ; B 27 -224 490 671 ;  
C 103 ; WX 411 ; N gamma ; B 5 -225 484 499 ;  
C 104 ; WX 603 ; N eta ; B 0 -202 527 514 ;  
C 105 ; WX 329 ; N iota ; B 0 -17 301 503 ;  
C 106 ; WX 603 ; N phi1 ; B 36 -224 587 499 ;  
C 107 ; WX 549 ; N kappa ; B 33 0 558 501 ;  
C 108 ; WX 549 ; N lambda ; B 24 -17 548 739 ;  
C 109 ; WX 576 ; N mu ; B 33 -223 567 500 ;  
C 110 ; WX 521 ; N nu ; B -9 -16 475 507 ;  
C 111 ; WX 549 ; N omicron ; B 35 -19 501 499 ;  
C 112 ; WX 549 ; N pi ; B 10 -19 530 487 ;  
C 113 ; WX 521 ; N theta ; B 43 -17 485 690 ;  
C 114 ; WX 549 ; N rho ; B 50 -230 490 499 ;  
C 115 ; WX 603 ; N sigma ; B 30 -21 588 500 ;  
C 116 ; WX 439 ; N tau ; B 10 -19 418 500 ;  
C 117 ; WX 576 ; N upsilon ; B 7 -18 535 507 ;  
C 118 ; WX 713 ; N omega1 ; B 12 -18 671 583 ;

C 119 ; WX 686 ; N omega ; B 42 -17 684 500 ;  
C 120 ; WX 493 ; N xi ; B 27 -224 469 766 ;  
C 121 ; WX 686 ; N psi ; B 12 -228 701 500 ;  
C 122 ; WX 494 ; N zeta ; B 60 -225 467 756 ;  
C 123 ; WX 480 ; N braceleft ; B 58 -183 397 673 ;  
C 124 ; WX 200 ; N bar ; B 65 -177 135 673 ;  
C 125 ; WX 480 ; N braceright ; B 79 -183 418 673 ;  
C 126 ; WX 549 ; N similar ; B 17 203 529 307 ;  
C 161 ; WX 620 ; N Upsilon1 ; B -2 0 610 685 ;  
C 162 ; WX 247 ; N minute ; B 27 459 228 735 ;  
C 163 ; WX 549 ; N lessequal ; B 29 0 526 639 ;  
C 164 ; WX 167 ; N fraction ; B -180 -12 340 677 ;  
C 165 ; WX 713 ; N infinity ; B 26 124 688 404 ;  
C 166 ; WX 500 ; N florin ; B 2 -193 494 686 ;  
C 167 ; WX 753 ; N club ; B 86 -26 660 533 ;  
C 168 ; WX 753 ; N diamond ; B 142 -36 600 550 ;  
C 169 ; WX 753 ; N heart ; B 117 -33 631 532 ;  
C 170 ; WX 753 ; N spade ; B 113 -36 629 548 ;  
C 171 ; WX 1042 ; N arrowboth ; B 24 -15 1024 511 ;  
C 172 ; WX 987 ; N arrowleft ; B 32 -15 942 511 ;  
C 173 ; WX 603 ; N arrowup ; B 45 0 571 910 ;  
C 174 ; WX 987 ; N arrowright ; B 49 -15 959 511 ;  
C 175 ; WX 603 ; N arrowdown ; B 45 -22 571 888 ;  
C 176 ; WX 400 ; N degree ; B 50 385 350 685 ;  
C 177 ; WX 549 ; N plusminus ; B 10 0 539 645 ;  
C 178 ; WX 411 ; N second ; B 20 459 413 737 ;  
C 179 ; WX 549 ; N greaterequal ; B 29 0 526 639 ;  
C 180 ; WX 549 ; N multiply ; B 17 8 533 524 ;  
C 181 ; WX 713 ; N proportional ; B 27 123 639 404 ;  
C 182 ; WX 494 ; N partialdiff ; B 26 -20 462 746 ;  
C 183 ; WX 460 ; N bullet ; B 50 113 410 473 ;  
C 184 ; WX 549 ; N divide ; B 10 71 536 456 ;  
C 185 ; WX 549 ; N notequal ; B 15 -25 540 549 ;  
C 186 ; WX 549 ; N equivalence ; B 14 82 538 443 ;  
C 187 ; WX 549 ; N approxequal ; B 14 135 527 394 ;  
C 188 ; WX 1000 ; N ellipsis ; B 111 -17 889 95 ;  
C 189 ; WX 603 ; N arrowvertex ; B 280 -120 336 1010 ;  
C 190 ; WX 1000 ; N arrowhorizex ; B -60 220 1050 276 ;  
C 191 ; WX 658 ; N carriagereturn ; B 15 -16 602 629 ;  
C 192 ; WX 823 ; N aleph ; B 175 -18 661 658 ;  
C 193 ; WX 686 ; N Ifraktur ; B 10 -53 578 740 ;  
C 194 ; WX 795 ; N Rfraktur ; B 26 -15 759 734 ;  
C 195 ; WX 987 ; N weierstrass ; B 159 -211 870 573 ;  
C 196 ; WX 768 ; N circlemultiply ; B 43 -17 733 673 ;  
C 197 ; WX 768 ; N circleplus ; B 43 -15 733 675 ;  
C 198 ; WX 823 ; N emptyset ; B 39 -24 781 719 ;  
C 199 ; WX 768 ; N intersection ; B 40 0 732 509 ;  
C 200 ; WX 768 ; N union ; B 40 -17 732 492 ;



C 201 ; WX 713 ; N propersuperset ; B 20 0 673 470 ;  
C 202 ; WX 713 ; N reflexsuperset ; B 20 -125 673 470 ;  
C 203 ; WX 713 ; N notsubset ; B 36 -70 690 540 ;  
C 204 ; WX 713 ; N propersubset ; B 37 0 690 470 ;  
C 205 ; WX 713 ; N reflexsubset ; B 37 -125 690 470 ;  
C 206 ; WX 713 ; N element ; B 45 0 505 468 ;  
C 207 ; WX 713 ; N notelement ; B 45 -58 505 555 ;  
C 208 ; WX 768 ; N angle ; B 26 0 738 673 ;  
C 209 ; WX 713 ; N gradient ; B 36 -19 681 718 ;  
C 210 ; WX 790 ; N registerserif ; B 50 -17 740 673 ;  
C 211 ; WX 790 ; N copyrightserif ; B 51 -15 741 675 ;  
C 212 ; WX 890 ; N trademarkserif ; B 18 293 855 673 ;  
C 213 ; WX 823 ; N product ; B 25 -101 803 751 ;  
C 214 ; WX 549 ; N radical ; B 10 -38 515 917 ;  
C 215 ; WX 250 ; N dotmath ; B 69 210 169 310 ;  
C 216 ; WX 713 ; N logicalnot ; B 15 0 680 288 ;  
C 217 ; WX 603 ; N logicaland ; B 23 0 583 454 ;  
C 218 ; WX 603 ; N logicalor ; B 30 0 578 477 ;  
C 219 ; WX 1042 ; N arrowdblboth ; B 27 -20 1023 510 ;  
C 220 ; WX 987 ; N arrowdblleft ; B 30 -15 939 513 ;  
C 221 ; WX 603 ; N arrowdblup ; B 39 2 567 911 ;  
C 222 ; WX 987 ; N arrowdblright ; B 45 -20 954 508 ;  
C 223 ; WX 603 ; N arrowdbldown ; B 44 -19 572 890 ;  
C 224 ; WX 494 ; N lozenge ; B 18 0 466 745 ;  
C 225 ; WX 329 ; N angleleft ; B 25 -198 306 746 ;  
C 226 ; WX 790 ; N registersans ; B 50 -20 740 670 ;  
C 227 ; WX 790 ; N copyrightsans ; B 49 -15 739 675 ;  
C 228 ; WX 786 ; N trademarksans ; B 5 293 725 673 ;  
C 229 ; WX 713 ; N summation ; B 14 -108 695 752 ;  
C 230 ; WX 384 ; N parenlefttp ; B 40 -293 436 926 ;  
C 231 ; WX 384 ; N parenleftex ; B 40 -85 92 925 ;  
C 232 ; WX 384 ; N parenleftbt ; B 40 -293 436 926 ;  
C 233 ; WX 384 ; N bracketlefttp ; B 0 -80 341 926 ;  
C 234 ; WX 384 ; N bracketleftex ; B 0 -79 55 925 ;  
C 235 ; WX 384 ; N bracketleftbt ; B 0 -80 340 926 ;  
C 236 ; WX 494 ; N bracelefttp ; B 201 -75 439 926 ;  
C 237 ; WX 494 ; N braceleftmid ; B 14 -85 255 935 ;  
C 238 ; WX 494 ; N braceleftbt ; B 201 -70 439 926 ;  
C 239 ; WX 494 ; N braceex ; B 201 -80 255 935 ;  
C 241 ; WX 329 ; N angleright ; B 21 -198 302 746 ;  
C 242 ; WX 274 ; N integral ; B 2 -107 291 916 ;  
C 243 ; WX 686 ; N integraltp ; B 332 -83 715 921 ;  
C 244 ; WX 686 ; N integralex ; B 332 -88 415 975 ;  
C 245 ; WX 686 ; N integralbt ; B 39 -81 415 921 ;  
C 246 ; WX 384 ; N parenrighttp ; B 54 -293 450 926 ;  
C 247 ; WX 384 ; N parenrightex ; B 398 -85 450 925 ;  
C 248 ; WX 384 ; N parenrightbt ; B 54 -293 450 926 ;  
C 249 ; WX 384 ; N bracketrighttp ; B 22 -80 360 926 ;

C 250 ; WX 384 ; N bracketrightex ; B 305 -79 360 925 ;  
C 251 ; WX 384 ; N bracketrightbt ; B 20 -80 360 926 ;  
C 252 ; WX 494 ; N bracerighttp ; B 17 -75 255 926 ;  
C 253 ; WX 494 ; N bracerightmid ; B 201 -85 442 935 ;  
C 254 ; WX 494 ; N bracerightbt ; B 17 -70 255 926 ;  
C -1 ; WX 790 ; N apple ; B 56 -3 733 808 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue Jan 21 16:12:06 1992

Comment UniqueID 37830

Comment VMusage 33139 40031

FontName Bookman-LightItalic

FullName ITC Bookman Light Italic

FamilyName ITC Bookman

Weight Light

ItalicAngle -10

IsFixedPitch false

FontBBox -228 -250 1269 883

UnderlinePosition -100

UnderlineThickness 50

Version 001.004

Notice Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved. ITC Bookman is a registered trademark of International Typeface Corporation.

EncodingScheme AdobeStandardEncoding

CapHeight 681

XHeight 494

Ascender 717

Descender -212

StartCharMetrics 228

C 32 ; WX 300 ; N space ; B 0 0 0 0 ;

C 33 ; WX 320 ; N exclam ; B 103 -8 342 698 ;

C 34 ; WX 360 ; N quotedbl ; B 107 468 402 698 ;

C 35 ; WX 620 ; N numbersign ; B 107 0 598 681 ;

C 36 ; WX 620 ; N dollar ; B 78 -85 619 762 ;

C 37 ; WX 800 ; N percent ; B 56 -8 811 691 ;

C 38 ; WX 820 ; N ampersand ; B 65 -18 848 698 ;

C 39 ; WX 280 ; N quoteright ; B 148 470 288 698 ;

C 40 ; WX 280 ; N parenleft ; B 96 -146 383 727 ;

C 41 ; WX 280 ; N parenright ; B -8 -146 279 727 ;

C 42 ; WX 440 ; N asterisk ; B 139 324 505 698 ;

C 43 ; WX 600 ; N plus ; B 91 43 595 548 ;

C 44 ; WX 300 ; N comma ; B 88 -115 227 112 ;

C 45 ; WX 320 ; N hyphen ; B 78 269 336 325 ;

C 46 ; WX 300 ; N period ; B 96 -8 231 127 ;

C 47 ; WX 600 ; N slash ; B 104 -149 562 717 ;

C 48 ; WX 620 ; N zero ; B 86 -17 646 698 ;

C 49 ; WX 620 ; N one ; B 154 0 500 681 ;  
C 50 ; WX 620 ; N two ; B 66 0 636 698 ;  
C 51 ; WX 620 ; N three ; B 55 -17 622 698 ;  
C 52 ; WX 620 ; N four ; B 69 0 634 681 ;  
C 53 ; WX 620 ; N five ; B 70 -17 614 681 ;  
C 54 ; WX 620 ; N six ; B 89 -17 657 698 ;  
C 55 ; WX 620 ; N seven ; B 143 0 672 681 ;  
C 56 ; WX 620 ; N eight ; B 61 -17 655 698 ;  
C 57 ; WX 620 ; N nine ; B 77 -17 649 698 ;  
C 58 ; WX 300 ; N colon ; B 96 -8 292 494 ;  
C 59 ; WX 300 ; N semicolon ; B 88 -114 292 494 ;  
C 60 ; WX 600 ; N less ; B 79 33 588 561 ;  
C 61 ; WX 600 ; N equal ; B 91 161 595 433 ;  
C 62 ; WX 600 ; N greater ; B 93 33 602 561 ;  
C 63 ; WX 540 ; N question ; B 114 -8 604 698 ;  
C 64 ; WX 780 ; N at ; B 102 -17 802 698 ;  
C 65 ; WX 700 ; N A ; B -25 0 720 681 ;  
C 66 ; WX 720 ; N B ; B 21 0 746 681 ;  
C 67 ; WX 720 ; N C ; B 88 -17 746 698 ;  
C 68 ; WX 740 ; N D ; B 21 0 782 681 ;  
C 69 ; WX 680 ; N E ; B 21 0 736 681 ;  
C 70 ; WX 620 ; N F ; B 21 0 743 681 ;  
C 71 ; WX 760 ; N G ; B 88 -17 813 698 ;  
C 72 ; WX 800 ; N H ; B 21 0 888 681 ;  
C 73 ; WX 320 ; N I ; B 21 0 412 681 ;  
C 74 ; WX 560 ; N J ; B -2 -17 666 681 ;  
C 75 ; WX 720 ; N K ; B 21 0 804 681 ;  
C 76 ; WX 580 ; N L ; B 21 0 656 681 ;  
C 77 ; WX 860 ; N M ; B 18 0 956 681 ;  
C 78 ; WX 720 ; N N ; B 18 0 823 681 ;  
C 79 ; WX 760 ; N O ; B 88 -17 799 698 ;  
C 80 ; WX 600 ; N P ; B 21 0 681 681 ;  
C 81 ; WX 780 ; N Q ; B 61 -191 812 698 ;  
C 82 ; WX 700 ; N R ; B 21 0 736 681 ;  
C 83 ; WX 640 ; N S ; B 61 -17 668 698 ;  
C 84 ; WX 600 ; N T ; B 50 0 725 681 ;  
C 85 ; WX 720 ; N U ; B 118 -17 842 681 ;  
C 86 ; WX 680 ; N V ; B 87 0 815 681 ;  
C 87 ; WX 960 ; N W ; B 87 0 1095 681 ;  
C 88 ; WX 700 ; N X ; B -25 0 815 681 ;  
C 89 ; WX 660 ; N Y ; B 87 0 809 681 ;  
C 90 ; WX 580 ; N Z ; B 8 0 695 681 ;  
C 91 ; WX 260 ; N bracketleft ; B 56 -136 351 717 ;  
C 92 ; WX 600 ; N backslash ; B 84 0 542 717 ;  
C 93 ; WX 260 ; N bracketright ; B 15 -136 309 717 ;  
C 94 ; WX 600 ; N asciicircum ; B 97 276 599 681 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 280 ; N quoteleft ; B 191 470 330 698 ;

C 97 ; WX 620 ; N a ; B 71 -8 686 494 ;  
C 98 ; WX 600 ; N b ; B 88 -8 621 717 ;  
C 99 ; WX 480 ; N c ; B 65 -8 522 494 ;  
C 100 ; WX 640 ; N d ; B 65 -8 695 717 ;  
C 101 ; WX 540 ; N e ; B 65 -8 575 494 ;  
C 102 ; WX 340 ; N f ; B -160 -218 557 725 ; L i f i ; L l f l ;  
C 103 ; WX 560 ; N g ; B 4 -221 581 494 ;  
C 104 ; WX 620 ; N h ; B 88 -8 689 717 ;  
C 105 ; WX 280 ; N i ; B 88 -8 351 663 ;  
C 106 ; WX 280 ; N j ; B -200 -221 308 663 ;  
C 107 ; WX 600 ; N k ; B 88 -8 657 717 ;  
C 108 ; WX 280 ; N l ; B 100 -8 342 717 ;  
C 109 ; WX 880 ; N m ; B 88 -8 952 494 ;  
C 110 ; WX 620 ; N n ; B 88 -8 673 494 ;  
C 111 ; WX 540 ; N o ; B 65 -8 572 494 ;  
C 112 ; WX 600 ; N p ; B -24 -212 620 494 ;  
C 113 ; WX 560 ; N q ; B 65 -212 584 494 ;  
C 114 ; WX 400 ; N r ; B 88 0 481 494 ;  
C 115 ; WX 540 ; N s ; B 65 -8 547 494 ;  
C 116 ; WX 340 ; N t ; B 88 -8 411 664 ;  
C 117 ; WX 620 ; N u ; B 88 -8 686 484 ;  
C 118 ; WX 540 ; N v ; B 88 -8 562 494 ;  
C 119 ; WX 880 ; N w ; B 88 -8 893 494 ;  
C 120 ; WX 540 ; N x ; B 9 -8 626 494 ;  
C 121 ; WX 600 ; N y ; B 60 -221 609 484 ;  
C 122 ; WX 520 ; N z ; B 38 -8 561 494 ;  
C 123 ; WX 360 ; N braceleft ; B 122 -191 442 717 ;  
C 124 ; WX 600 ; N bar ; B 294 -250 372 750 ;  
C 125 ; WX 380 ; N braceright ; B 13 -191 333 717 ;  
C 126 ; WX 600 ; N asciitilde ; B 91 207 595 386 ;  
C 161 ; WX 320 ; N exclamdown ; B 73 -213 301 494 ;  
C 162 ; WX 620 ; N cent ; B 148 -29 596 715 ;  
C 163 ; WX 620 ; N sterling ; B 4 -17 702 698 ;  
C 164 ; WX 20 ; N fraction ; B -228 0 323 681 ;  
C 165 ; WX 620 ; N yen ; B 71 0 735 681 ;  
C 166 ; WX 620 ; N florin ; B -26 -218 692 725 ;  
C 167 ; WX 620 ; N section ; B 38 -178 638 698 ;  
C 168 ; WX 620 ; N currency ; B 100 89 605 591 ;  
C 169 ; WX 200 ; N quotesingle ; B 99 473 247 698 ;  
C 170 ; WX 440 ; N quotedblleft ; B 191 470 493 698 ;  
C 171 ; WX 300 ; N guillemotleft ; B 70 129 313 434 ;  
C 172 ; WX 180 ; N guilsinglleft ; B 75 129 208 434 ;  
C 173 ; WX 180 ; N guilsinglright ; B 70 129 203 434 ;  
C 174 ; WX 640 ; N fi ; B -159 -222 709 725 ;  
C 175 ; WX 660 ; N fl ; B -159 -218 713 725 ;  
C 177 ; WX 500 ; N endash ; B 33 269 561 325 ;  
C 178 ; WX 620 ; N dagger ; B 192 -130 570 698 ;  
C 179 ; WX 620 ; N daggerdbl ; B 144 -122 566 698 ;

C 180 ; WX 300 ; N periodcentered ; B 137 229 272 364 ;  
C 182 ; WX 620 ; N paragraph ; B 112 0 718 681 ;  
C 183 ; WX 460 ; N bullet ; B 100 170 444 511 ;  
C 184 ; WX 320 ; N quotesinglbase ; B 87 -114 226 113 ;  
C 185 ; WX 480 ; N quotedblbase ; B 87 -114 390 113 ;  
C 186 ; WX 440 ; N quotedblright ; B 148 470 451 698 ;  
C 187 ; WX 300 ; N guillemotright ; B 60 129 303 434 ;  
C 188 ; WX 1000 ; N ellipsis ; B 99 -8 900 127 ;  
C 189 ; WX 1180 ; N perthousand ; B 56 -8 1199 691 ;  
C 191 ; WX 540 ; N questiondown ; B 18 -212 508 494 ;  
C 193 ; WX 340 ; N grave ; B 182 551 377 706 ;  
C 194 ; WX 320 ; N acute ; B 178 551 373 706 ;  
C 195 ; WX 440 ; N circumflex ; B 176 571 479 685 ;  
C 196 ; WX 440 ; N tilde ; B 180 586 488 671 ;  
C 197 ; WX 440 ; N macron ; B 178 599 484 658 ;  
C 198 ; WX 440 ; N breve ; B 191 577 500 680 ;  
C 199 ; WX 260 ; N dotaccent ; B 169 543 290 664 ;  
C 200 ; WX 420 ; N dieresis ; B 185 569 467 688 ;  
C 202 ; WX 300 ; N ring ; B 178 551 334 706 ;  
C 203 ; WX 320 ; N cedilla ; B 45 -178 240 0 ;  
C 205 ; WX 340 ; N hungarumlaut ; B 167 547 402 738 ;  
C 206 ; WX 260 ; N ogonek ; B 51 -173 184 0 ;  
C 207 ; WX 440 ; N caron ; B 178 571 481 684 ;  
C 208 ; WX 1000 ; N emdash ; B 33 269 1061 325 ;  
C 225 ; WX 1220 ; N AE ; B -45 0 1269 681 ;  
C 227 ; WX 440 ; N ordfeminine ; B 130 396 513 698 ;  
C 232 ; WX 580 ; N Lslash ; B 21 0 656 681 ;  
C 233 ; WX 760 ; N Oslash ; B 88 -95 799 777 ;  
C 234 ; WX 1180 ; N OE ; B 88 -17 1237 698 ;  
C 235 ; WX 400 ; N ordmasculine ; B 139 396 455 698 ;  
C 241 ; WX 880 ; N ae ; B 71 -8 918 494 ;  
C 245 ; WX 280 ; N dotlessi ; B 88 -8 351 484 ;  
C 248 ; WX 340 ; N lslash ; B 50 -8 398 717 ;  
C 249 ; WX 540 ; N oslash ; B 65 -49 571 532 ;  
C 250 ; WX 900 ; N oe ; B 65 -8 948 494 ;  
C 251 ; WX 620 ; N germandbls ; B -121 -111 653 698 ;  
C -1 ; WX 540 ; N ecircumflex ; B 65 -8 575 685 ;  
C -1 ; WX 540 ; N edieresis ; B 65 -8 575 688 ;  
C -1 ; WX 620 ; N aacute ; B 71 -8 686 706 ;  
C -1 ; WX 740 ; N registered ; B 84 -17 784 698 ;  
C -1 ; WX 280 ; N icircumflex ; B 76 -8 379 685 ;  
C -1 ; WX 620 ; N udieresis ; B 88 -8 686 688 ;  
C -1 ; WX 540 ; N ograve ; B 65 -8 572 706 ;  
C -1 ; WX 620 ; N uacute ; B 88 -8 686 706 ;  
C -1 ; WX 620 ; N ucircumflex ; B 88 -8 686 685 ;  
C -1 ; WX 700 ; N Aacute ; B -25 0 720 883 ;  
C -1 ; WX 280 ; N igrave ; B 88 -8 351 706 ;  
C -1 ; WX 320 ; N Icircumflex ; B 21 0 449 862 ;

C -1 ; WX 480 ; N ccedilla ; B 65 -178 522 494 ;  
C -1 ; WX 620 ; N adieresis ; B 71 -8 686 688 ;  
C -1 ; WX 680 ; N Ecircumflex ; B 21 0 736 862 ;  
C -1 ; WX 540 ; N scaron ; B 65 -8 547 684 ;  
C -1 ; WX 600 ; N thorn ; B -24 -212 620 717 ;  
C -1 ; WX 980 ; N trademark ; B 69 277 965 681 ;  
C -1 ; WX 540 ; N egrave ; B 65 -8 575 706 ;  
C -1 ; WX 372 ; N threesuperior ; B 70 269 439 698 ;  
C -1 ; WX 520 ; N zcaron ; B 38 -8 561 684 ;  
C -1 ; WX 620 ; N tilde ; B 71 -8 686 671 ;  
C -1 ; WX 620 ; N aring ; B 71 -8 686 706 ;  
C -1 ; WX 540 ; N ocircumflex ; B 65 -8 572 685 ;  
C -1 ; WX 680 ; N Edieresis ; B 21 0 736 865 ;  
C -1 ; WX 930 ; N threequarters ; B 99 0 913 691 ;  
C -1 ; WX 600 ; N ydieresis ; B 60 -221 609 688 ;  
C -1 ; WX 600 ; N yacute ; B 60 -221 609 706 ;  
C -1 ; WX 280 ; N iacute ; B 88 -8 351 706 ;  
C -1 ; WX 700 ; N Acircumflex ; B -25 0 720 862 ;  
C -1 ; WX 720 ; N Uacute ; B 118 -17 842 883 ;  
C -1 ; WX 540 ; N eacute ; B 65 -8 575 706 ;  
C -1 ; WX 760 ; N Ograve ; B 88 -17 799 883 ;  
C -1 ; WX 620 ; N agrave ; B 71 -8 686 706 ;  
C -1 ; WX 720 ; N Udieresis ; B 118 -17 842 865 ;  
C -1 ; WX 620 ; N acircumflex ; B 71 -8 686 685 ;  
C -1 ; WX 320 ; N Igrave ; B 21 0 412 883 ;  
C -1 ; WX 372 ; N twosuperior ; B 68 279 439 698 ;  
C -1 ; WX 720 ; N Ugrave ; B 118 -17 842 883 ;  
C -1 ; WX 930 ; N onequarter ; B 91 0 913 681 ;  
C -1 ; WX 720 ; N Ucircumflex ; B 118 -17 842 862 ;  
C -1 ; WX 640 ; N Scaron ; B 61 -17 668 861 ;  
C -1 ; WX 320 ; N Idieresis ; B 21 0 447 865 ;  
C -1 ; WX 280 ; N idieresis ; B 88 -8 377 688 ;  
C -1 ; WX 680 ; N Egrave ; B 21 0 736 883 ;  
C -1 ; WX 760 ; N Oacute ; B 88 -17 799 883 ;  
C -1 ; WX 600 ; N divide ; B 91 46 595 548 ;  
C -1 ; WX 700 ; N Atilde ; B -25 0 720 848 ;  
C -1 ; WX 700 ; N Aring ; B -25 0 720 883 ;  
C -1 ; WX 760 ; N Odieresis ; B 88 -17 799 865 ;  
C -1 ; WX 700 ; N Adieresis ; B -25 0 720 865 ;  
C -1 ; WX 720 ; N Ntilde ; B 18 0 823 848 ;  
C -1 ; WX 580 ; N Zcaron ; B 8 0 695 861 ;  
C -1 ; WX 600 ; N Thorn ; B 21 0 656 681 ;  
C -1 ; WX 320 ; N Iacute ; B 21 0 412 883 ;  
C -1 ; WX 600 ; N plusminus ; B 91 0 595 548 ;  
C -1 ; WX 600 ; N multiply ; B 91 44 595 548 ;  
C -1 ; WX 680 ; N Eacute ; B 21 0 736 883 ;  
C -1 ; WX 660 ; N Ydieresis ; B 87 0 809 865 ;  
C -1 ; WX 372 ; N onesuperior ; B 114 279 339 688 ;

C -1 ; WX 620 ; N ugrave ; B 88 -8 686 706 ;  
C -1 ; WX 600 ; N logicalnot ; B 91 163 595 433 ;  
C -1 ; WX 620 ; N tilde ; B 88 -8 673 671 ;  
C -1 ; WX 760 ; N Otilde ; B 88 -17 799 848 ;  
C -1 ; WX 540 ; N otilde ; B 65 -8 572 671 ;  
C -1 ; WX 720 ; N Ccedilla ; B 88 -178 746 698 ;  
C -1 ; WX 700 ; N Agrave ; B -25 0 720 883 ;  
C -1 ; WX 930 ; N onehalf ; B 91 0 925 681 ;  
C -1 ; WX 740 ; N Eth ; B 21 0 782 681 ;  
C -1 ; WX 400 ; N degree ; B 120 398 420 698 ;  
C -1 ; WX 660 ; N Yacute ; B 87 0 809 883 ;  
C -1 ; WX 760 ; N Ocircumflex ; B 88 -17 799 862 ;  
C -1 ; WX 540 ; N oacute ; B 65 -8 572 706 ;  
C -1 ; WX 620 ; N mu ; B 53 -221 686 484 ;  
C -1 ; WX 600 ; N minus ; B 91 259 595 335 ;  
C -1 ; WX 540 ; N eth ; B 65 -8 642 725 ;  
C -1 ; WX 540 ; N odieresis ; B 65 -8 572 688 ;  
C -1 ; WX 740 ; N copyright ; B 84 -17 784 698 ;  
C -1 ; WX 600 ; N brokenbar ; B 294 -175 372 675 ;

EndCharMetrics

StartKernData

StartKernPairs 85

KPX A Y -62

KPX A W -73

KPX A V -78

KPX A T -5

KPX F period -97

KPX F comma -98

KPX F A -16

KPX L y 20

KPX L Y 7

KPX L W 9

KPX L V 4

KPX P period -105

KPX P comma -106

KPX P A -30

KPX R Y 11

KPX R W 2

KPX R V 2

KPX R T 65

KPX T semicolon 48

KPX T s -7

KPX T r 67  
KPX T period -78  
KPX T o 14  
KPX T i 71  
KPX T hyphen 20  
KPX T e 10  
KPX T comma -79  
KPX T colon 48  
KPX T c 16  
KPX T a 9  
KPX T A -14

KPX V y -14  
KPX V u -10  
KPX V semicolon -44  
KPX V r -20  
KPX V period -100  
KPX V o -70  
KPX V i 3  
KPX V hyphen 20  
KPX V e -70  
KPX V comma -109  
KPX V colon -35  
KPX V a -70  
KPX V A -70

KPX W y -14  
KPX W u -20  
KPX W semicolon -42  
KPX W r -30  
KPX W period -100  
KPX W o -60  
KPX W i 3  
KPX W hyphen 20  
KPX W e -60  
KPX W comma -109  
KPX W colon -35  
KPX W a -60  
KPX W A -60

KPX Y v -19  
KPX Y u -31  
KPX Y semicolon -40  
KPX Y q -72  
KPX Y period -100  
KPX Y p -37  
KPX Y o -75  
KPX Y i -11



KPX Y hyphen 20  
KPX Y e -78  
KPX Y comma -109  
KPX Y colon -35  
KPX Y a -79  
KPX Y A -82

KPX f f -19

KPX r q -14  
KPX r period -134  
KPX r o -10  
KPX r n 38  
KPX r m 37  
KPX r hyphen 20  
KPX r h -20  
KPX r g -3  
KPX r f -9  
KPX r e -15  
KPX r d -9  
KPX r comma -143  
KPX r c -8

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 200 177 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 140 177 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 177 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 220 177 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 130 177 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 210 177 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 140 177 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 150 177 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 150 177 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 30 177 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -30 177 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -20 177 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -30 177 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 177 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 177 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 190 177 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 200 177 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 210 177 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 190 177 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 100 177 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 230 177 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 170 177 ;

CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 180 177 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 170 177 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 200 177 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 140 177 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 70 177 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 70 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 110 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 140 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 60 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 90 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 30 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 40 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 80 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -40 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -100 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -90 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -60 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 60 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 80 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 20 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 40 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 80 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 30 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 30 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 120 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 60 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 70 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 110 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 140 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 70 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 20 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Fri Jan 17 13:38:17 1992

Comment UniqueID 37674

Comment VMusage 32991 39883

FontName Utopia-Regular

FullName Utopia Regular

FamilyName Utopia

Weight Regular

ItalicAngle 0

IsFixedPitch false

FontBBox -158 -250 1158 890

UnderlinePosition -100

UnderlineThickness 50

Version 001.002

Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved. Utopia is a registered trademark of Adobe Systems Incorporated.

EncodingScheme AdobeStandardEncoding

CapHeight 692

XHeight 490

Ascender 742

Descender -230

StartCharMetrics 228

C 32 ; WX 225 ; N space ; B 0 0 0 0 ;

C 33 ; WX 242 ; N exclam ; B 58 -12 184 707 ;

C 34 ; WX 458 ; N quotedbl ; B 101 464 358 742 ;

C 35 ; WX 530 ; N numbersign ; B 11 0 519 668 ;

C 36 ; WX 530 ; N dollar ; B 44 -102 487 743 ;

C 37 ; WX 838 ; N percent ; B 50 -25 788 700 ;

C 38 ; WX 706 ; N ampersand ; B 46 -12 692 680 ;

C 39 ; WX 278 ; N quoteright ; B 72 472 207 742 ;

C 40 ; WX 350 ; N parenleft ; B 105 -128 325 692 ;

C 41 ; WX 350 ; N parenright ; B 25 -128 245 692 ;

C 42 ; WX 412 ; N asterisk ; B 50 356 363 707 ;

C 43 ; WX 570 ; N plus ; B 43 0 527 490 ;

C 44 ; WX 265 ; N comma ; B 51 -141 193 141 ;

C 45 ; WX 392 ; N hyphen ; B 74 216 319 286 ;

C 46 ; WX 265 ; N period ; B 70 -12 196 116 ;

C 47 ; WX 460 ; N slash ; B 92 -15 369 707 ;

C 48 ; WX 530 ; N zero ; B 41 -12 489 680 ;

C 49 ; WX 530 ; N one ; B 109 0 437 680 ;

C 50 ; WX 530 ; N two ; B 27 0 485 680 ;

C 51 ; WX 530 ; N three ; B 27 -12 473 680 ;

C 52 ; WX 530 ; N four ; B 19 0 493 668 ;

C 53 ; WX 530 ; N five ; B 40 -12 480 668 ;

C 54 ; WX 530 ; N six ; B 44 -12 499 680 ;

C 55 ; WX 530 ; N seven ; B 41 -12 497 668 ;

C 56 ; WX 530 ; N eight ; B 42 -12 488 680 ;

C 57 ; WX 530 ; N nine ; B 36 -12 477 680 ;

C 58 ; WX 265 ; N colon ; B 70 -12 196 490 ;

C 59 ; WX 265 ; N semicolon ; B 51 -141 196 490 ;

C 60 ; WX 570 ; N less ; B 46 1 524 499 ;

C 61 ; WX 570 ; N equal ; B 43 111 527 389 ;

C 62 ; WX 570 ; N greater ; B 46 1 524 499 ;

C 63 ; WX 389 ; N question ; B 29 -12 359 707 ;

C 64 ; WX 793 ; N at ; B 46 -15 755 707 ;

C 65 ; WX 635 ; N A ; B -29 0 650 692 ;

C 66 ; WX 646 ; N B ; B 35 0 595 692 ;

C 67 ; WX 684 ; N C ; B 48 -15 649 707 ;

C 68 ; WX 779 ; N D ; B 35 0 731 692 ;

C 69 ; WX 606 ; N E ; B 35 0 577 692 ;

C 70 ; WX 580 ; N F ; B 35 0 543 692 ;  
C 71 ; WX 734 ; N G ; B 48 -15 725 707 ;  
C 72 ; WX 798 ; N H ; B 35 0 763 692 ;  
C 73 ; WX 349 ; N I ; B 35 0 314 692 ;  
C 74 ; WX 350 ; N J ; B 0 -114 323 692 ;  
C 75 ; WX 658 ; N K ; B 35 -5 671 692 ;  
C 76 ; WX 568 ; N L ; B 35 0 566 692 ;  
C 77 ; WX 944 ; N M ; B 33 0 909 692 ;  
C 78 ; WX 780 ; N N ; B 34 0 753 692 ;  
C 79 ; WX 762 ; N O ; B 48 -15 714 707 ;  
C 80 ; WX 600 ; N P ; B 35 0 574 692 ;  
C 81 ; WX 762 ; N Q ; B 48 -193 714 707 ;  
C 82 ; WX 644 ; N R ; B 35 0 638 692 ;  
C 83 ; WX 541 ; N S ; B 50 -15 504 707 ;  
C 84 ; WX 621 ; N T ; B 22 0 599 692 ;  
C 85 ; WX 791 ; N U ; B 29 -15 762 692 ;  
C 86 ; WX 634 ; N V ; B -18 0 678 692 ;  
C 87 ; WX 940 ; N W ; B -13 0 977 692 ;  
C 88 ; WX 624 ; N X ; B -19 0 657 692 ;  
C 89 ; WX 588 ; N Y ; B -12 0 632 692 ;  
C 90 ; WX 610 ; N Z ; B 9 0 594 692 ;  
C 91 ; WX 330 ; N bracketleft ; B 133 -128 292 692 ;  
C 92 ; WX 460 ; N backslash ; B 91 -15 369 707 ;  
C 93 ; WX 330 ; N bracketright ; B 38 -128 197 692 ;  
C 94 ; WX 570 ; N asciicircum ; B 56 228 514 668 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 72 478 207 748 ;  
C 97 ; WX 523 ; N a ; B 49 -12 525 502 ;  
C 98 ; WX 598 ; N b ; B 20 -12 549 742 ;  
C 99 ; WX 496 ; N c ; B 49 -12 473 502 ;  
C 100 ; WX 598 ; N d ; B 49 -12 583 742 ;  
C 101 ; WX 514 ; N e ; B 49 -12 481 502 ;  
C 102 ; WX 319 ; N f ; B 30 0 389 742 ; L i f i ; L l f l ;  
C 103 ; WX 520 ; N g ; B 42 -242 525 512 ;  
C 104 ; WX 607 ; N h ; B 21 0 592 742 ;  
C 105 ; WX 291 ; N i ; B 32 0 276 715 ;  
C 106 ; WX 280 ; N j ; B -33 -242 214 715 ;  
C 107 ; WX 524 ; N k ; B 20 -5 538 742 ;  
C 108 ; WX 279 ; N l ; B 20 0 264 742 ;  
C 109 ; WX 923 ; N m ; B 32 0 908 502 ;  
C 110 ; WX 619 ; N n ; B 32 0 604 502 ;  
C 111 ; WX 577 ; N o ; B 49 -12 528 502 ;  
C 112 ; WX 608 ; N p ; B 25 -230 559 502 ;  
C 113 ; WX 591 ; N q ; B 49 -230 583 502 ;  
C 114 ; WX 389 ; N r ; B 32 0 386 502 ;  
C 115 ; WX 436 ; N s ; B 47 -12 400 502 ;  
C 116 ; WX 344 ; N t ; B 31 -12 342 616 ;  
C 117 ; WX 606 ; N u ; B 26 -12 591 502 ;

C 118 ; WX 504 ; N v ; B 1 0 529 490 ;  
C 119 ; WX 768 ; N w ; B -2 0 792 490 ;  
C 120 ; WX 486 ; N x ; B 1 0 509 490 ;  
C 121 ; WX 506 ; N y ; B -5 -242 528 490 ;  
C 122 ; WX 480 ; N z ; B 19 0 462 490 ;  
C 123 ; WX 340 ; N braceleft ; B 79 -128 298 692 ;  
C 124 ; WX 228 ; N bar ; B 80 -250 148 750 ;  
C 125 ; WX 340 ; N braceright ; B 42 -128 261 692 ;  
C 126 ; WX 570 ; N asciitilde ; B 73 175 497 317 ;  
C 161 ; WX 242 ; N exclamdown ; B 58 -217 184 502 ;  
C 162 ; WX 530 ; N cent ; B 37 -10 487 675 ;  
C 163 ; WX 530 ; N sterling ; B 27 0 510 680 ;  
C 164 ; WX 150 ; N fraction ; B -158 -27 308 695 ;  
C 165 ; WX 530 ; N yen ; B -2 0 525 668 ;  
C 166 ; WX 530 ; N florin ; B -2 -135 522 691 ;  
C 167 ; WX 554 ; N section ; B 46 -115 507 707 ;  
C 168 ; WX 530 ; N currency ; B 25 90 505 578 ;  
C 169 ; WX 278 ; N quotesingle ; B 93 464 185 742 ;  
C 170 ; WX 458 ; N quotedblleft ; B 72 478 387 748 ;  
C 171 ; WX 442 ; N guillemotleft ; B 41 41 401 435 ;  
C 172 ; WX 257 ; N guilsinglleft ; B 41 41 216 435 ;  
C 173 ; WX 257 ; N guilsinglright ; B 41 41 216 435 ;  
C 174 ; WX 610 ; N fi ; B 30 0 595 742 ;  
C 175 ; WX 610 ; N fl ; B 30 0 595 742 ;  
C 177 ; WX 500 ; N endash ; B 0 221 500 279 ;  
C 178 ; WX 504 ; N dagger ; B 45 -125 459 717 ;  
C 179 ; WX 488 ; N daggerdbl ; B 45 -119 443 717 ;  
C 180 ; WX 265 ; N periodcentered ; B 70 188 196 316 ;  
C 182 ; WX 555 ; N paragraph ; B 64 -101 529 692 ;  
C 183 ; WX 409 ; N bullet ; B 45 192 364 512 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 72 -125 207 145 ;  
C 185 ; WX 458 ; N quotedblbase ; B 72 -125 387 145 ;  
C 186 ; WX 458 ; N quotedblright ; B 72 472 387 742 ;  
C 187 ; WX 442 ; N guillemotright ; B 41 41 401 435 ;  
C 188 ; WX 1000 ; N ellipsis ; B 104 -12 896 116 ;  
C 189 ; WX 1208 ; N perthousand ; B 50 -25 1158 700 ;  
C 191 ; WX 389 ; N questiondown ; B 30 -217 360 502 ;  
C 193 ; WX 400 ; N grave ; B 49 542 271 723 ;  
C 194 ; WX 400 ; N acute ; B 129 542 351 723 ;  
C 195 ; WX 400 ; N circumflex ; B 47 541 353 720 ;  
C 196 ; WX 400 ; N tilde ; B 22 563 377 682 ;  
C 197 ; WX 400 ; N macron ; B 56 597 344 656 ;  
C 198 ; WX 400 ; N breve ; B 63 568 337 704 ;  
C 199 ; WX 400 ; N dotaccent ; B 140 570 260 683 ;  
C 200 ; WX 400 ; N dieresis ; B 36 570 364 683 ;  
C 202 ; WX 400 ; N ring ; B 92 550 308 752 ;  
C 203 ; WX 400 ; N cedilla ; B 163 -230 329 0 ;  
C 205 ; WX 400 ; N hungarumlaut ; B 101 546 380 750 ;

C 206 ; WX 400 ; N ogonek ; B 103 -230 295 0 ;  
C 207 ; WX 400 ; N caron ; B 47 541 353 720 ;  
C 208 ; WX 1000 ; N emdash ; B 0 221 1000 279 ;  
C 225 ; WX 876 ; N AE ; B -63 0 847 692 ;  
C 227 ; WX 390 ; N ordfeminine ; B 40 265 364 590 ;  
C 232 ; WX 574 ; N Lslash ; B 36 0 572 692 ;  
C 233 ; WX 762 ; N Oslash ; B 48 -53 714 739 ;  
C 234 ; WX 1025 ; N OE ; B 48 0 996 692 ;  
C 235 ; WX 398 ; N ordmasculine ; B 35 265 363 590 ;  
C 241 ; WX 797 ; N ae ; B 49 -12 764 502 ;  
C 245 ; WX 291 ; N dotlessi ; B 32 0 276 502 ;  
C 248 ; WX 294 ; N lslash ; B 14 0 293 742 ;  
C 249 ; WX 577 ; N oslash ; B 49 -41 528 532 ;  
C 250 ; WX 882 ; N oe ; B 49 -12 849 502 ;  
C 251 ; WX 601 ; N germandbls ; B 22 -12 573 742 ;  
C -1 ; WX 380 ; N onesuperior ; B 81 272 307 680 ;  
C -1 ; WX 570 ; N minus ; B 43 221 527 279 ;  
C -1 ; WX 350 ; N degree ; B 37 404 313 680 ;  
C -1 ; WX 577 ; N oacute ; B 49 -12 528 723 ;  
C -1 ; WX 762 ; N Odieresis ; B 48 -15 714 841 ;  
C -1 ; WX 577 ; N odieresis ; B 49 -12 528 683 ;  
C -1 ; WX 606 ; N Eacute ; B 35 0 577 890 ;  
C -1 ; WX 606 ; N ucircumflex ; B 26 -12 591 720 ;  
C -1 ; WX 860 ; N onequarter ; B 65 -27 795 695 ;  
C -1 ; WX 570 ; N logicalnot ; B 43 102 527 389 ;  
C -1 ; WX 606 ; N Ecircumflex ; B 35 0 577 876 ;  
C -1 ; WX 860 ; N onehalf ; B 58 -27 807 695 ;  
C -1 ; WX 762 ; N Otilde ; B 48 -15 714 842 ;  
C -1 ; WX 606 ; N uacute ; B 26 -12 591 723 ;  
C -1 ; WX 514 ; N eacute ; B 49 -12 481 723 ;  
C -1 ; WX 291 ; N iacute ; B 32 0 317 723 ;  
C -1 ; WX 606 ; N Egrave ; B 35 0 577 890 ;  
C -1 ; WX 291 ; N icircumflex ; B -3 0 304 720 ;  
C -1 ; WX 606 ; N mu ; B 26 -246 591 502 ;  
C -1 ; WX 228 ; N brokenbar ; B 80 -175 148 675 ;  
C -1 ; WX 606 ; N thorn ; B 23 -230 557 722 ;  
C -1 ; WX 627 ; N Aring ; B -32 0 647 861 ;  
C -1 ; WX 506 ; N yacute ; B -5 -242 528 723 ;  
C -1 ; WX 588 ; N Ydieresis ; B -12 0 632 841 ;  
C -1 ; WX 1100 ; N trademark ; B 45 277 1048 692 ;  
C -1 ; WX 818 ; N registered ; B 45 -15 773 707 ;  
C -1 ; WX 577 ; N ocircumflex ; B 49 -12 528 720 ;  
C -1 ; WX 635 ; N Agrave ; B -29 0 650 890 ;  
C -1 ; WX 541 ; N Scaron ; B 50 -15 504 882 ;  
C -1 ; WX 791 ; N Ugrave ; B 29 -15 762 890 ;  
C -1 ; WX 606 ; N Edieresis ; B 35 0 577 841 ;  
C -1 ; WX 791 ; N Uacute ; B 29 -15 762 890 ;  
C -1 ; WX 577 ; N otilde ; B 49 -12 528 682 ;

C -1 ; WX 619 ; N tilde ; B 32 0 604 682 ;  
 C -1 ; WX 506 ; N ydieresis ; B -5 -242 528 683 ;  
 C -1 ; WX 635 ; N Aacute ; B -29 0 650 890 ;  
 C -1 ; WX 577 ; N eth ; B 49 -12 528 742 ;  
 C -1 ; WX 523 ; N acircumflex ; B 49 -12 525 720 ;  
 C -1 ; WX 523 ; N aring ; B 49 -12 525 752 ;  
 C -1 ; WX 762 ; N Ograve ; B 48 -15 714 890 ;  
 C -1 ; WX 496 ; N ccedilla ; B 49 -230 473 502 ;  
 C -1 ; WX 570 ; N multiply ; B 63 22 507 478 ;  
 C -1 ; WX 570 ; N divide ; B 43 26 527 474 ;  
 C -1 ; WX 380 ; N twosuperior ; B 32 272 348 680 ;  
 C -1 ; WX 780 ; N Ntilde ; B 34 0 753 842 ;  
 C -1 ; WX 606 ; N ugrave ; B 26 -12 591 723 ;  
 C -1 ; WX 791 ; N Ucircumflex ; B 29 -15 762 876 ;  
 C -1 ; WX 635 ; N Atilde ; B -29 0 650 842 ;  
 C -1 ; WX 480 ; N zcaron ; B 19 0 462 720 ;  
 C -1 ; WX 291 ; N idieresis ; B -19 0 310 683 ;  
 C -1 ; WX 635 ; N Acircumflex ; B -29 0 650 876 ;  
 C -1 ; WX 349 ; N Icircumflex ; B 22 0 328 876 ;  
 C -1 ; WX 588 ; N Yacute ; B -12 0 632 890 ;  
 C -1 ; WX 762 ; N Oacute ; B 48 -15 714 890 ;  
 C -1 ; WX 635 ; N Adieresis ; B -29 0 650 841 ;  
 C -1 ; WX 610 ; N Zcaron ; B 9 0 594 882 ;  
 C -1 ; WX 523 ; N agrave ; B 49 -12 525 723 ;  
 C -1 ; WX 380 ; N threesuperior ; B 36 265 339 680 ;  
 C -1 ; WX 577 ; N ograve ; B 49 -12 528 723 ;  
 C -1 ; WX 860 ; N threequarters ; B 50 -27 808 695 ;  
 C -1 ; WX 785 ; N Eth ; B 20 0 737 692 ;  
 C -1 ; WX 570 ; N plusminus ; B 43 0 527 556 ;  
 C -1 ; WX 606 ; N udieresis ; B 26 -12 591 683 ;  
 C -1 ; WX 514 ; N edieresis ; B 49 -12 481 683 ;  
 C -1 ; WX 523 ; N aacute ; B 49 -12 525 723 ;  
 C -1 ; WX 291 ; N igrave ; B -35 0 276 723 ;  
 C -1 ; WX 349 ; N Idieresis ; B 13 0 337 841 ;  
 C -1 ; WX 523 ; N adieresis ; B 49 -12 525 683 ;  
 C -1 ; WX 349 ; N Iacute ; B 35 0 371 890 ;  
 C -1 ; WX 818 ; N copyright ; B 45 -15 773 707 ;  
 C -1 ; WX 349 ; N Igrave ; B -17 0 314 890 ;  
 C -1 ; WX 680 ; N Ccedilla ; B 48 -230 649 707 ;  
 C -1 ; WX 436 ; N scaron ; B 47 -12 400 720 ;  
 C -1 ; WX 514 ; N egrave ; B 49 -12 481 723 ;  
 C -1 ; WX 762 ; N Ocircumflex ; B 48 -15 714 876 ;  
 C -1 ; WX 593 ; N Thorn ; B 35 0 556 692 ;  
 C -1 ; WX 523 ; N atilde ; B 49 -12 525 682 ;  
 C -1 ; WX 791 ; N Udieresis ; B 29 -15 762 841 ;  
 C -1 ; WX 514 ; N ecircumflex ; B 49 -12 481 720 ;

EndCharMetrics

StartKernData

StartKernPairs 712

KPX A z 6  
KPX A y -50  
KPX A w -45  
KPX A v -60  
KPX A u -25  
KPX A t -12  
KPX A quoteright -120  
KPX A quotedblright -120  
KPX A q -6  
KPX A p -18  
KPX A o -12  
KPX A e -6  
KPX A d -12  
KPX A c -12  
KPX A b -12  
KPX A Y -70  
KPX A X -6  
KPX A W -58  
KPX A V -72  
KPX A U -50  
KPX A T -70  
KPX A Q -24  
KPX A O -24  
KPX A G -24  
KPX A C -24

KPX B y -18  
KPX B u -12  
KPX B r -12  
KPX B period -30  
KPX B o -6  
KPX B l -12  
KPX B i -12  
KPX B h -12  
KPX B e -6  
KPX B comma -20  
KPX B a -12  
KPX B W -25  
KPX B V -20  
KPX B U -20  
KPX B T -20

KPX C z -18  
KPX C y -24  
KPX C u -18  
KPX C r -6



KPX C o -12  
KPX C e -12  
KPX C a -12  
KPX C Q -6  
KPX C O -6  
KPX C G -6  
KPX C C -6

KPX D y 6  
KPX D u -12  
KPX D r -12  
KPX D quoteright -20  
KPX D quotedblright -20  
KPX D period -60  
KPX D i -6  
KPX D h -12  
KPX D e -6  
KPX D comma -50  
KPX D a -6  
KPX D Y -45  
KPX D W -35  
KPX D V -35

KPX E z -6  
KPX E y -30  
KPX E x -6  
KPX E w -24  
KPX E v -24  
KPX E u -12  
KPX E t -18  
KPX E r -4  
KPX E q -6  
KPX E p -18  
KPX E o -6  
KPX E n -4  
KPX E m -4  
KPX E l 5  
KPX E k 5  
KPX E j -6  
KPX E i -6  
KPX E g -6  
KPX E f -12  
KPX E e -6  
KPX E d -6  
KPX E c -6  
KPX E b -12  
KPX E Y -6  
KPX E W -6

KPX E V -6

KPX F y -18

KPX F u -12

KPX F r -20

KPX F period -180

KPX F o -36

KPX F l -12

KPX F i -10

KPX F endash 20

KPX F e -36

KPX F comma -180

KPX F a -48

KPX F A -60

KPX G y -18

KPX G u -12

KPX G r -5

KPX G o 5

KPX G n -5

KPX G l -6

KPX G i -12

KPX G h -12

KPX G e 5

KPX G a -12

KPX H y -24

KPX H u -26

KPX H o -30

KPX H i -18

KPX H e -30

KPX H a -24

KPX I z -6

KPX I y -6

KPX I x -6

KPX I w -18

KPX I v -24

KPX I u -26

KPX I t -24

KPX I s -18

KPX I r -12

KPX I p -26

KPX I o -30

KPX I n -18

KPX I m -18

KPX I l -6

KPX I k -6

KPX I h -6  
KPX I g -10  
KPX I f -6  
KPX I e -30  
KPX I d -30  
KPX I c -30  
KPX I b -6  
KPX I a -24

KPX J y -12  
KPX J u -36  
KPX J o -30  
KPX J i -20  
KPX J e -30  
KPX J bracketright 20  
KPX J braceright 20  
KPX J a -36

KPX K y -60  
KPX K w -70  
KPX K v -70  
KPX K u -42  
KPX K o -30  
KPX K i 6  
KPX K e -24  
KPX K a -12  
KPX K Q -42  
KPX K O -42  
KPX K G -42  
KPX K C -42

KPX L y -52  
KPX L w -58  
KPX L u -12  
KPX L quoteright -130  
KPX L quotedblright -50  
KPX L l 6  
KPX L j -6  
KPX L Y -70  
KPX L W -90  
KPX L V -100  
KPX L U -24  
KPX L T -100  
KPX L Q -18  
KPX L O -10  
KPX L G -18  
KPX L C -18  
KPX L A 12

KPX M y -24  
KPX M u -36  
KPX M o -30  
KPX M n -6  
KPX M j -12  
KPX M i -12  
KPX M e -30  
KPX M d -30  
KPX M c -30  
KPX M a -12

KPX N y -24  
KPX N u -30  
KPX N o -30  
KPX N i -24  
KPX N e -30  
KPX N a -30

KPX O z -6  
KPX O u -6  
KPX O t -6  
KPX O s -6  
KPX O q -6  
KPX O period -60  
KPX O p -6  
KPX O o -6  
KPX O n -5  
KPX O m -5  
KPX O l -6  
KPX O k -6  
KPX O i -5  
KPX O h -12  
KPX O g -6  
KPX O e -6  
KPX O d -6  
KPX O comma -50  
KPX O c -6  
KPX O a -12  
KPX O Y -55  
KPX O X -24  
KPX O W -30  
KPX O V -18  
KPX O T -30  
KPX O A -18

KPX P u -12  
KPX P t -6

KPX P s -24  
KPX P r -12  
KPX P period -200  
KPX P o -30  
KPX P n -12  
KPX P l -6  
KPX P hyphen -40  
KPX P h -6  
KPX P e -30  
KPX P comma -200  
KPX P a -36  
KPX P I -6  
KPX P H -12  
KPX P E -6  
KPX P A -55

KPX Q u -6  
KPX Q a -18  
KPX Q Y -30  
KPX Q X -24  
KPX Q W -24  
KPX Q V -18  
KPX Q U -30  
KPX Q T -24  
KPX Q A -18

KPX R y -20  
KPX R u -12  
KPX R quoteright -20  
KPX R quotedblright -20  
KPX R o -20  
KPX R hyphen -30  
KPX R e -20  
KPX R d -20  
KPX R a -12  
KPX R Y -45  
KPX R W -24  
KPX R V -32  
KPX R U -30  
KPX R T -32  
KPX R Q -24  
KPX R O -24  
KPX R G -24  
KPX R C -24

KPX S y -25  
KPX S w -30  
KPX S v -30

KPX S u -24  
KPX S t -24  
KPX S r -20  
KPX S quoteright -10  
KPX S quotedblright -10  
KPX S q -5  
KPX S p -24  
KPX S o -12  
KPX S n -20  
KPX S m -20  
KPX S l -18  
KPX S k -24  
KPX S j -12  
KPX S i -20  
KPX S h -12  
KPX S e -12  
KPX S a -18

KPX T z -64  
KPX T y -84  
KPX T w -100  
KPX T u -82  
KPX T semicolon -56  
KPX T s -82  
KPX T r -82  
KPX T quoteright 24  
KPX T period -110  
KPX T parenright 54  
KPX T o -100  
KPX T m -82  
KPX T i -34  
KPX T hyphen -100  
KPX T endash -50  
KPX T emdash -50  
KPX T e -100  
KPX T comma -110  
KPX T colon -50  
KPX T bracketright 54  
KPX T braceright 54  
KPX T a -100  
KPX T Y 12  
KPX T X 18  
KPX T W 6  
KPX T V 6  
KPX T T 12  
KPX T S -12  
KPX T Q -18  
KPX T O -18

KPX T G -18  
KPX T C -18  
KPX T A -65

KPX U z -30  
KPX U y -20  
KPX U x -30  
KPX U v -20  
KPX U t -36  
KPX U s -40  
KPX U r -40  
KPX U p -42  
KPX U n -40  
KPX U m -40  
KPX U l -12  
KPX U k -12  
KPX U i -28  
KPX U h -6  
KPX U g -50  
KPX U f -12  
KPX U d -45  
KPX U c -45  
KPX U b -12  
KPX U a -40  
KPX U A -40

KPX V y -36  
KPX V u -40  
KPX V semicolon -45  
KPX V r -70  
KPX V quoteright 36  
KPX V quotedblright 20  
KPX V period -140  
KPX V parenright 85  
KPX V o -70  
KPX V i 6  
KPX V hyphen -60  
KPX V endash -20  
KPX V emdash -20  
KPX V e -70  
KPX V comma -140  
KPX V colon -45  
KPX V bracketright 64  
KPX V braceright 64  
KPX V a -60  
KPX V T 6  
KPX V Q -12  
KPX V O -12

KPX V G -12  
KPX V C -12  
KPX V A -60

KPX W y -50  
KPX W u -46  
KPX W semicolon -40  
KPX W r -45  
KPX W quoteright 36  
KPX W quotedblright 20  
KPX W period -110  
KPX W parenright 85  
KPX W o -65  
KPX W m -45  
KPX W i -10  
KPX W hyphen -40  
KPX W e -65  
KPX W d -65  
KPX W comma -100  
KPX W colon -40  
KPX W bracketright 64  
KPX W braceright 64  
KPX W a -60  
KPX W T 18  
KPX W Q -6  
KPX W O -6  
KPX W G -6  
KPX W C -6  
KPX W A -48

KPX X y -18  
KPX X u -24  
KPX X quoteright 15  
KPX X e -6  
KPX X a -6  
KPX X Q -24  
KPX X O -30  
KPX X G -30  
KPX X C -30  
KPX X A 6

KPX Y v -50  
KPX Y u -54  
KPX Y t -46  
KPX Y semicolon -37  
KPX Y quoteright 36  
KPX Y quotedblright 20  
KPX Y q -100



KPX Y period -90  
KPX Y parenright 60  
KPX Y o -90  
KPX Y l 10  
KPX Y hyphen -50  
KPX Y emdash -20  
KPX Y e -90  
KPX Y d -90  
KPX Y comma -90  
KPX Y colon -50  
KPX Y bracketright 64  
KPX Y braceright 64  
KPX Y a -68  
KPX Y Y 12  
KPX Y X 12  
KPX Y W 12  
KPX Y V 12  
KPX Y T 12  
KPX Y Q -18  
KPX Y O -18  
KPX Y G -18  
KPX Y C -18  
KPX Y A -32

KPX Z y -36  
KPX Z w -36  
KPX Z u -6  
KPX Z o -12  
KPX Z i -12  
KPX Z e -6  
KPX Z a -6  
KPX Z Q -20  
KPX Z O -20  
KPX Z G -30  
KPX Z C -20  
KPX Z A 20

KPX a quoteright -70  
KPX a quotedblright -80

KPX b y -25  
KPX b w -30  
KPX b v -35  
KPX b quoteright -70  
KPX b quotedblright -70  
KPX b period -40  
KPX b comma -40

KPX braceleft Y 64  
KPX braceleft W 64  
KPX braceleft V 64  
KPX braceleft T 54  
KPX braceleft J 80

KPX bracketleft Y 64  
KPX bracketleft W 64  
KPX bracketleft V 64  
KPX bracketleft T 54  
KPX bracketleft J 80

KPX c quoteright -28  
KPX c quotedblright -28  
KPX c period -10

KPX comma quoteright -50  
KPX comma quotedblright -50

KPX d quoteright -24  
KPX d quotedblright -24

KPX e z -4  
KPX e quoteright -60  
KPX e quotedblright -60  
KPX e period -20  
KPX e comma -20

KPX f quotesingle 30  
KPX f quoteright 65  
KPX f quotedblright 56  
KPX f quotedbl 30  
KPX f parenright 100  
KPX f bracketright 100  
KPX f braceright 100

KPX g quoteright -18  
KPX g quotedblright -10

KPX h quoteright -80  
KPX h quotedblright -80

KPX j quoteright -20  
KPX j quotedblright -20  
KPX j period -30  
KPX j comma -30

KPX k quoteright -40

KPX k quotedblright -40

KPX l quoteright -10

KPX l quotedblright -10

KPX m quoteright -80

KPX m quotedblright -80

KPX n quoteright -80

KPX n quotedblright -80

KPX o z -12

KPX o y -30

KPX o x -18

KPX o w -30

KPX o v -30

KPX o quoteright -70

KPX o quotedblright -70

KPX o period -40

KPX o comma -40

KPX p z -20

KPX p y -25

KPX p w -30

KPX p quoteright -70

KPX p quotedblright -70

KPX p period -40

KPX p comma -40

KPX parenleft Y 64

KPX parenleft W 64

KPX parenleft V 64

KPX parenleft T 64

KPX parenleft J 80

KPX period quoteright -50

KPX period quotedblright -50

KPX q quoteright -50

KPX q quotedblright -50

KPX q period -20

KPX q comma -10

KPX quotedblleft z -60

KPX quotedblleft y -30

KPX quotedblleft x -40

KPX quotedblleft w -20

KPX quotedblleft v -20

KPX quotedblleft u -40  
KPX quotedblleft t -40  
KPX quotedblleft s -50  
KPX quotedblleft r -50  
KPX quotedblleft q -80  
KPX quotedblleft p -50  
KPX quotedblleft o -80  
KPX quotedblleft n -50  
KPX quotedblleft m -50  
KPX quotedblleft g -70  
KPX quotedblleft f -50  
KPX quotedblleft e -80  
KPX quotedblleft d -80  
KPX quotedblleft c -80  
KPX quotedblleft a -70  
KPX quotedblleft Z -20  
KPX quotedblleft Y 12  
KPX quotedblleft W 18  
KPX quotedblleft V 18  
KPX quotedblleft U -20  
KPX quotedblleft T 10  
KPX quotedblleft S -20  
KPX quotedblleft R -20  
KPX quotedblleft Q -20  
KPX quotedblleft P -20  
KPX quotedblleft O -30  
KPX quotedblleft N -20  
KPX quotedblleft M -20  
KPX quotedblleft L -20  
KPX quotedblleft K -20  
KPX quotedblleft J -40  
KPX quotedblleft I -20  
KPX quotedblleft H -20  
KPX quotedblleft G -30  
KPX quotedblleft F -20  
KPX quotedblleft E -20  
KPX quotedblleft D -20  
KPX quotedblleft C -30  
KPX quotedblleft B -20  
KPX quotedblleft A -130

KPX quotedblright period -130  
KPX quotedblright comma -130

KPX quoteleft z -40  
KPX quoteleft y -35  
KPX quoteleft x -30  
KPX quoteleft w -20

KPX quoteleft v -20  
KPX quoteleft u -50  
KPX quoteleft t -40  
KPX quoteleft s -45  
KPX quoteleft r -50  
KPX quoteleft quoteleft -72  
KPX quoteleft q -70  
KPX quoteleft p -50  
KPX quoteleft o -70  
KPX quoteleft n -50  
KPX quoteleft m -50  
KPX quoteleft g -65  
KPX quoteleft f -40  
KPX quoteleft e -70  
KPX quoteleft d -70  
KPX quoteleft c -70  
KPX quoteleft a -60  
KPX quoteleft Z -20  
KPX quoteleft Y 18  
KPX quoteleft X 12  
KPX quoteleft W 18  
KPX quoteleft V 18  
KPX quoteleft U -20  
KPX quoteleft T 10  
KPX quoteleft R -20  
KPX quoteleft Q -20  
KPX quoteleft P -20  
KPX quoteleft O -30  
KPX quoteleft N -20  
KPX quoteleft M -20  
KPX quoteleft L -20  
KPX quoteleft K -20  
KPX quoteleft J -40  
KPX quoteleft I -20  
KPX quoteleft H -20  
KPX quoteleft G -40  
KPX quoteleft F -20  
KPX quoteleft E -20  
KPX quoteleft D -20  
KPX quoteleft C -30  
KPX quoteleft B -20  
KPX quoteleft A -130

KPX quoteright v -40  
KPX quoteright t -75  
KPX quoteright s -110  
KPX quoteright r -70  
KPX quoteright quoteright -72

KPX quoteright period -130  
KPX quoteright m -70  
KPX quoteright l -6  
KPX quoteright d -120  
KPX quoteright comma -130

KPX r z 10  
KPX r y 18  
KPX r x 12  
KPX r w 18  
KPX r v 18  
KPX r u 8  
KPX r t 8  
KPX r semicolon 10  
KPX r quoteright -20  
KPX r quotedblright -20  
KPX r q -6  
KPX r period -60  
KPX r o -6  
KPX r n 8  
KPX r m 8  
KPX r k -6  
KPX r i 8  
KPX r hyphen -20  
KPX r h 6  
KPX r g -6  
KPX r f 8  
KPX r e -20  
KPX r d -20  
KPX r comma -60  
KPX r colon 10  
KPX r c -20  
KPX r a -10

KPX s quoteright -40  
KPX s quotedblright -40  
KPX s period -20  
KPX s comma -10

KPX space quotesinglbase -60  
KPX space quoteleft -40  
KPX space quotedblleft -40  
KPX space quotedblbase -60  
KPX space Y -60  
KPX space W -60  
KPX space V -60  
KPX space T -36

KPX t quoteright -18  
KPX t quotedblright -18

KPX u quoteright -30  
KPX u quotedblright -30

KPX v semicolon 10  
KPX v quoteright 20  
KPX v quotedblright 20  
KPX v q -10  
KPX v period -90  
KPX v o -5  
KPX v e -5  
KPX v d -10  
KPX v comma -90  
KPX v colon 10  
KPX v c -6  
KPX v a -6

KPX w semicolon 10  
KPX w quoteright 20  
KPX w quotedblright 20  
KPX w q -6  
KPX w period -80  
KPX w e -6  
KPX w d -6  
KPX w comma -75  
KPX w colon 10  
KPX w c -6

KPX x quoteright -10  
KPX x quotedblright -20  
KPX x q -6  
KPX x o -6  
KPX x d -12  
KPX x c -12

KPX y semicolon 10  
KPX y q -6  
KPX y period -95  
KPX y o -6  
KPX y hyphen -30  
KPX y e -6  
KPX y d -6  
KPX y comma -85  
KPX y colon 10  
KPX y c -6

KPX z quoteright -20  
KPX z quotedblright -30  
KPX z o -6  
KPX z e -6  
KPX z d -6  
KPX z c -6  
EndKernPairs  
EndKernData  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Creation Date: Thu Jun 21 22:23:51 1990  
Comment UniqueID 5000832  
FontName CMTT10  
EncodingScheme FontSpecific  
FullName CMTT10  
FamilyName Computer Modern  
Weight Medium  
ItalicAngle 0.0  
IsFixedPitch true  
Version 1.00B  
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.  
Comment Computer Modern fonts were designed by Donald E. Knuth  
FontBBox -4 -235 731 800  
CapHeight 611.111  
XHeight 430.556  
Ascender 611.111  
Descender -222.222  
Comment FontID CMTT  
Comment DesignSize 10 (pts)  
Comment CharacterCodingScheme TeX typewriter text  
Comment Space 525 0 0  
Comment ExtraSpace 525  
Comment Quad 1050  
StartCharMetrics 129  
C 0 ; WX 525 ; N Gamma ; B 32 0 488 611 ;  
C 1 ; WX 525 ; N Delta ; B 34 0 490 623 ;  
C 2 ; WX 525 ; N Theta ; B 56 -11 468 622 ;  
C 3 ; WX 525 ; N Lambda ; B 29 0 495 623 ;  
C 4 ; WX 525 ; N Xi ; B 33 0 491 611 ;  
C 5 ; WX 525 ; N Pi ; B 22 0 502 611 ;  
C 6 ; WX 525 ; N Sigma ; B 40 0 484 611 ;  
C 7 ; WX 525 ; N Upsilon ; B 38 0 486 622 ;  
C 8 ; WX 525 ; N Phi ; B 40 0 484 611 ;  
C 9 ; WX 525 ; N Psi ; B 38 0 486 611 ;  
C 10 ; WX 525 ; N Omega ; B 32 0 492 622 ;  
C 11 ; WX 525 ; N arrowup ; B 59 0 465 611 ;  
C 12 ; WX 525 ; N arrowdown ; B 59 0 465 611 ;  
C 13 ; WX 525 ; N quotesingle ; B 217 328 309 622 ;



C 14 ; WX 525 ; N exclamdown ; B 212 -233 312 389 ;  
C 15 ; WX 525 ; N questiondown ; B 62 -228 462 389 ;  
C 16 ; WX 525 ; N dotlessi ; B 78 0 455 431 ;  
C 17 ; WX 525 ; N dotlessj ; B 48 -228 368 431 ;  
C 18 ; WX 525 ; N grave ; B 117 477 329 611 ;  
C 19 ; WX 525 ; N acute ; B 195 477 407 611 ;  
C 20 ; WX 525 ; N caron ; B 101 454 423 572 ;  
C 21 ; WX 525 ; N breve ; B 86 498 438 611 ;  
C 22 ; WX 525 ; N macron ; B 73 514 451 577 ;  
C 23 ; WX 525 ; N ring ; B 181 499 343 619 ;  
C 24 ; WX 525 ; N cedilla ; B 162 -208 428 45 ;  
C 25 ; WX 525 ; N germandbls ; B 17 -6 495 617 ;  
C 26 ; WX 525 ; N ae ; B 33 -6 504 440 ;  
C 27 ; WX 525 ; N oe ; B 19 -6 505 440 ;  
C 28 ; WX 525 ; N oslash ; B 43 -140 481 571 ;  
C 29 ; WX 525 ; N AE ; B 23 0 499 611 ;  
C 30 ; WX 525 ; N OE ; B 29 -11 502 622 ;  
C 31 ; WX 525 ; N Oslash ; B 56 -85 468 696 ;  
C 32 ; WX 525 ; N visiblespace ; B 44 -132 480 240 ;  
C 33 ; WX 525 ; N exclam ; B 212 0 312 622 ; L quoteleft exclamdown ;  
C 34 ; WX 525 ; N quotedbl ; B 126 328 398 622 ;  
C 35 ; WX 525 ; N numbersign ; B 35 0 489 611 ;  
C 36 ; WX 525 ; N dollar ; B 58 -83 466 694 ;  
C 37 ; WX 525 ; N percent ; B 35 -83 489 694 ;  
C 38 ; WX 525 ; N ampersand ; B 28 -11 490 622 ;  
C 39 ; WX 525 ; N quoteright ; B 180 302 341 611 ;  
C 40 ; WX 525 ; N parenleft ; B 173 -82 437 694 ;  
C 41 ; WX 525 ; N parenright ; B 88 -82 352 694 ;  
C 42 ; WX 525 ; N asterisk ; B 68 90 456 521 ;  
C 43 ; WX 525 ; N plus ; B 38 81 486 531 ;  
C 44 ; WX 525 ; N comma ; B 180 -139 346 125 ;  
C 45 ; WX 525 ; N hyphen ; B 56 271 468 341 ;  
C 46 ; WX 525 ; N period ; B 200 0 325 125 ;  
C 47 ; WX 525 ; N slash ; B 58 -83 466 694 ;  
C 48 ; WX 525 ; N zero ; B 50 -11 474 622 ;  
C 49 ; WX 525 ; N one ; B 105 0 442 622 ;  
C 50 ; WX 525 ; N two ; B 52 0 472 622 ;  
C 51 ; WX 525 ; N three ; B 44 -11 480 622 ;  
C 52 ; WX 525 ; N four ; B 29 0 495 623 ;  
C 53 ; WX 525 ; N five ; B 52 -11 472 611 ;  
C 54 ; WX 525 ; N six ; B 53 -11 471 622 ;  
C 55 ; WX 525 ; N seven ; B 44 -11 480 627 ;  
C 56 ; WX 525 ; N eight ; B 44 -11 480 622 ;  
C 57 ; WX 525 ; N nine ; B 53 -11 471 622 ;  
C 58 ; WX 525 ; N colon ; B 200 0 325 431 ;  
C 59 ; WX 525 ; N semicolon ; B 180 -139 330 431 ;  
C 60 ; WX 525 ; N less ; B 56 56 468 556 ;  
C 61 ; WX 525 ; N equal ; B 38 195 486 417 ;

C 62 ; WX 525 ; N greater ; B 56 56 468 556 ;  
C 63 ; WX 525 ; N question ; B 62 0 462 617 ; L quoteleft questiondown ;  
C 64 ; WX 525 ; N at ; B 44 -6 480 617 ;  
C 65 ; WX 525 ; N A ; B 27 0 497 623 ;  
C 66 ; WX 525 ; N B ; B 23 0 482 611 ;  
C 67 ; WX 525 ; N C ; B 40 -11 484 622 ;  
C 68 ; WX 525 ; N D ; B 19 0 485 611 ;  
C 69 ; WX 525 ; N E ; B 26 0 502 611 ;  
C 70 ; WX 525 ; N F ; B 28 0 490 611 ;  
C 71 ; WX 525 ; N G ; B 38 -11 496 622 ;  
C 72 ; WX 525 ; N H ; B 22 0 502 611 ;  
C 73 ; WX 525 ; N I ; B 79 0 446 611 ;  
C 74 ; WX 525 ; N J ; B 71 -11 478 611 ;  
C 75 ; WX 525 ; N K ; B 26 0 495 611 ;  
C 76 ; WX 525 ; N L ; B 32 0 488 611 ;  
C 77 ; WX 525 ; N M ; B 17 0 507 611 ;  
C 78 ; WX 525 ; N N ; B 28 0 496 611 ;  
C 79 ; WX 525 ; N O ; B 56 -11 468 622 ;  
C 80 ; WX 525 ; N P ; B 26 0 480 611 ;  
C 81 ; WX 525 ; N Q ; B 56 -139 468 622 ;  
C 82 ; WX 525 ; N R ; B 22 -11 522 611 ;  
C 83 ; WX 525 ; N S ; B 52 -11 472 622 ;  
C 84 ; WX 525 ; N T ; B 26 0 498 611 ;  
C 85 ; WX 525 ; N U ; B 4 -11 520 611 ;  
C 86 ; WX 525 ; N V ; B 18 -8 506 611 ;  
C 87 ; WX 525 ; N W ; B 11 -8 513 611 ;  
C 88 ; WX 525 ; N X ; B 27 0 496 611 ;  
C 89 ; WX 525 ; N Y ; B 19 0 505 611 ;  
C 90 ; WX 525 ; N Z ; B 48 0 481 611 ;  
C 91 ; WX 525 ; N bracketleft ; B 222 -83 483 694 ;  
C 92 ; WX 525 ; N backslash ; B 58 -83 466 694 ;  
C 93 ; WX 525 ; N bracketright ; B 41 -83 302 694 ;  
C 94 ; WX 525 ; N asciicircum ; B 100 471 424 611 ;  
C 95 ; WX 525 ; N underscore ; B 56 -95 468 -25 ;  
C 96 ; WX 525 ; N quoteleft ; B 183 372 344 681 ;  
C 97 ; WX 525 ; N a ; B 55 -6 524 440 ;  
C 98 ; WX 525 ; N b ; B 12 -6 488 611 ;  
C 99 ; WX 525 ; N c ; B 73 -6 466 440 ;  
C 100 ; WX 525 ; N d ; B 36 -6 512 611 ;  
C 101 ; WX 525 ; N e ; B 55 -6 464 440 ;  
C 102 ; WX 525 ; N f ; B 42 0 437 617 ;  
C 103 ; WX 525 ; N g ; B 29 -229 509 442 ;  
C 104 ; WX 525 ; N h ; B 12 0 512 611 ;  
C 105 ; WX 525 ; N i ; B 78 0 455 612 ;  
C 106 ; WX 525 ; N j ; B 48 -228 368 612 ;  
C 107 ; WX 525 ; N k ; B 21 0 508 611 ;  
C 108 ; WX 525 ; N l ; B 58 0 467 611 ;  
C 109 ; WX 525 ; N m ; B -4 0 516 437 ;

C 110 ; WX 525 ; N n ; B 12 0 512 437 ;  
C 111 ; WX 525 ; N o ; B 57 -6 467 440 ;  
C 112 ; WX 525 ; N p ; B 12 -222 488 437 ;  
C 113 ; WX 525 ; N q ; B 40 -222 537 437 ;  
C 114 ; WX 525 ; N r ; B 32 0 487 437 ;  
C 115 ; WX 525 ; N s ; B 72 -6 459 440 ;  
C 116 ; WX 525 ; N t ; B 25 -6 449 554 ;  
C 117 ; WX 525 ; N u ; B 12 -6 512 431 ;  
C 118 ; WX 525 ; N v ; B 24 -4 500 431 ;  
C 119 ; WX 525 ; N w ; B 16 -4 508 431 ;  
C 120 ; WX 525 ; N x ; B 27 0 496 431 ;  
C 121 ; WX 525 ; N y ; B 26 -228 500 431 ;  
C 122 ; WX 525 ; N z ; B 33 0 475 431 ;  
C 123 ; WX 525 ; N braceleft ; B 57 -83 467 694 ;  
C 124 ; WX 525 ; N bar ; B 227 -83 297 694 ;  
C 125 ; WX 525 ; N braceright ; B 57 -83 467 694 ;  
C 126 ; WX 525 ; N asciitilde ; B 87 491 437 611 ;  
C 127 ; WX 525 ; N dieresis ; B 110 512 414 612 ;  
C -1 ; WX 525 ; N space ; B 0 0 0 0 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 2.0

Comment Creation Date: Thu Jun 21 22:23:44 1990

Comment UniqueID 5000820

FontName CMSY10

EncodingScheme FontSpecific

FullName CMSY10

FamilyName Computer Modern

Weight Medium

ItalicAngle -14.035

IsFixedPitch false

Version 1.00

Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.

Comment Computer Modern fonts were designed by Donald E. Knuth

FontBBox -29 -960 1116 775

CapHeight 683.333

XHeight 430.556

Ascender 694.444

Descender -960

Comment FontID CMSY

Comment DesignSize 10 (pts)

Comment CharacterCodingScheme TeX math symbols

Comment Space 0 0 0

Comment ExtraSpace 0

Comment Quad 1000

Comment Num 676.508 393.732 443.731

Comment Denom 685.951 344.841

Comment Sup 412.892 362.892 288.889

Comment Sub 150 247.217  
Comment Supdrop 386.108  
Comment Subdrop 50  
Comment Delim 2390 1010  
Comment Axisheight 250  
StartCharMetrics 129  
C 0 ; WX 777.778 ; N minus ; B 83 230 694 270 ;  
C 1 ; WX 277.778 ; N periodcentered ; B 86 197 192 303 ;  
C 2 ; WX 777.778 ; N multiply ; B 147 9 630 491 ;  
C 3 ; WX 500 ; N asteriskmath ; B 65 34 434 465 ;  
C 4 ; WX 777.778 ; N divide ; B 56 -30 722 530 ;  
C 5 ; WX 500 ; N diamondmath ; B 11 11 489 489 ;  
C 6 ; WX 777.778 ; N plusminus ; B 56 0 721 666 ;  
C 7 ; WX 777.778 ; N minusplus ; B 56 -166 721 500 ;  
C 8 ; WX 777.778 ; N circleplus ; B 56 -83 721 583 ;  
C 9 ; WX 777.778 ; N circleminus ; B 56 -83 721 583 ;  
C 10 ; WX 777.778 ; N circlemultiply ; B 56 -83 721 583 ;  
C 11 ; WX 777.778 ; N circledivide ; B 56 -83 721 583 ;  
C 12 ; WX 777.778 ; N circledot ; B 56 -83 721 583 ;  
C 13 ; WX 1000 ; N circlecopyrt ; B 56 -216 943 716 ;  
C 14 ; WX 500 ; N openbullet ; B 56 56 443 444 ;  
C 15 ; WX 500 ; N bullet ; B 56 56 443 444 ;  
C 16 ; WX 777.778 ; N equivasymptotic ; B 56 16 721 484 ;  
C 17 ; WX 777.778 ; N equivalence ; B 56 36 721 464 ;  
C 18 ; WX 777.778 ; N reflexsubset ; B 83 -137 694 636 ;  
C 19 ; WX 777.778 ; N reflexsuperset ; B 83 -137 694 636 ;  
C 20 ; WX 777.778 ; N lessequal ; B 83 -137 694 636 ;  
C 21 ; WX 777.778 ; N greaterequal ; B 83 -137 694 636 ;  
C 22 ; WX 777.778 ; N precedesequal ; B 83 -137 694 636 ;  
C 23 ; WX 777.778 ; N followsequal ; B 83 -137 694 636 ;  
C 24 ; WX 777.778 ; N similar ; B 56 133 721 367 ;  
C 25 ; WX 777.778 ; N approxequal ; B 56 56 721 483 ;  
C 26 ; WX 777.778 ; N propersubset ; B 83 -40 694 540 ;  
C 27 ; WX 777.778 ; N propersuperset ; B 83 -40 694 540 ;  
C 28 ; WX 1000 ; N lessmuch ; B 56 -66 943 566 ;  
C 29 ; WX 1000 ; N greatermuch ; B 56 -66 943 566 ;  
C 30 ; WX 777.778 ; N precedes ; B 83 -40 694 539 ;  
C 31 ; WX 777.778 ; N follows ; B 83 -40 694 539 ;  
C 32 ; WX 1000 ; N arrowleft ; B 57 72 943 428 ;  
C 33 ; WX 1000 ; N arrowright ; B 56 72 942 428 ;  
C 34 ; WX 500 ; N arrowup ; B 72 -194 428 693 ;  
C 35 ; WX 500 ; N arrowdown ; B 72 -193 428 694 ;  
C 36 ; WX 1000 ; N arrowboth ; B 57 72 942 428 ;  
C 37 ; WX 1000 ; N arrownortheast ; B 56 -193 946 697 ;  
C 38 ; WX 1000 ; N arrowsoutheast ; B 56 -197 946 693 ;  
C 39 ; WX 777.778 ; N similarequal ; B 56 36 721 464 ;  
C 40 ; WX 1000 ; N arrowdblleft ; B 57 -25 943 525 ;  
C 41 ; WX 1000 ; N arrowdblright ; B 56 -25 942 525 ;

C 42 ; WX 611.111 ; N arrowdblup ; B 30 -194 580 694 ;  
C 43 ; WX 611.111 ; N arrowdbltdown ; B 30 -194 580 694 ;  
C 44 ; WX 1000 ; N arrowdblboth ; B 35 -25 964 525 ;  
C 45 ; WX 1000 ; N arrownorthwest ; B 53 -193 943 697 ;  
C 46 ; WX 1000 ; N arrowsouthwest ; B 53 -197 943 693 ;  
C 47 ; WX 777.778 ; N proportional ; B 56 -11 722 442 ;  
C 48 ; WX 275 ; N prime ; B 29 45 262 559 ;  
C 49 ; WX 1000 ; N infinity ; B 56 -11 943 442 ;  
C 50 ; WX 666.667 ; N element ; B 83 -40 583 540 ;  
C 51 ; WX 666.667 ; N owner ; B 83 -40 583 540 ;  
C 52 ; WX 888.889 ; N triangle ; B 59 0 829 716 ;  
C 53 ; WX 888.889 ; N triangleinv ; B 59 -216 829 500 ;  
C 54 ; WX 0 ; N negationslash ; B 139 -216 638 716 ;  
C 55 ; WX 0 ; N mapsto ; B 56 64 124 436 ;  
C 56 ; WX 555.556 ; N universal ; B 0 -22 556 694 ;  
C 57 ; WX 555.556 ; N existential ; B 56 0 499 694 ;  
C 58 ; WX 666.667 ; N logicalnot ; B 56 89 610 356 ;  
C 59 ; WX 500 ; N emptyset ; B 47 -78 452 772 ;  
C 60 ; WX 722.222 ; N Rfractur ; B 46 -22 714 716 ;  
C 61 ; WX 722.222 ; N Ifractur ; B 56 -11 693 705 ;  
C 62 ; WX 777.778 ; N latticetop ; B 56 0 722 666 ;  
C 63 ; WX 777.778 ; N perpendicular ; B 56 0 722 666 ;  
C 64 ; WX 611.111 ; N aleph ; B 56 0 554 693 ;  
C 65 ; WX 798.469 ; N A ; B 27 -50 798 722 ;  
C 66 ; WX 656.808 ; N B ; B 30 -22 665 706 ;  
C 67 ; WX 526.527 ; N C ; B 12 -24 534 705 ;  
C 68 ; WX 771.391 ; N D ; B 20 0 766 683 ;  
C 69 ; WX 527.778 ; N E ; B 28 -22 565 705 ;  
C 70 ; WX 718.75 ; N F ; B 17 -33 829 683 ;  
C 71 ; WX 594.864 ; N G ; B 44 -119 601 705 ;  
C 72 ; WX 844.516 ; N H ; B 20 -47 818 683 ;  
C 73 ; WX 544.513 ; N I ; B -24 0 635 683 ;  
C 74 ; WX 677.778 ; N J ; B 47 -119 840 683 ;  
C 75 ; WX 761.949 ; N K ; B 30 -22 733 705 ;  
C 76 ; WX 689.723 ; N L ; B 31 -22 656 705 ;  
C 77 ; WX 1200.9 ; N M ; B 27 -50 1116 705 ;  
C 78 ; WX 820.489 ; N N ; B -29 -50 978 775 ;  
C 79 ; WX 796.112 ; N O ; B 57 -22 777 705 ;  
C 80 ; WX 695.558 ; N P ; B 20 -50 733 683 ;  
C 81 ; WX 816.667 ; N Q ; B 113 -124 788 705 ;  
C 82 ; WX 847.502 ; N R ; B 20 -22 837 683 ;  
C 83 ; WX 605.556 ; N S ; B 18 -22 642 705 ;  
C 84 ; WX 544.643 ; N T ; B 29 0 798 717 ;  
C 85 ; WX 625.83 ; N U ; B -17 -28 688 683 ;  
C 86 ; WX 612.781 ; N V ; B 35 -45 660 683 ;  
C 87 ; WX 987.782 ; N W ; B 35 -45 1036 683 ;  
C 88 ; WX 713.295 ; N X ; B 50 0 808 683 ;  
C 89 ; WX 668.335 ; N Y ; B 31 -135 717 683 ;

C 90 ; WX 724.724 ; N Z ; B 37 0 767 683 ;  
C 91 ; WX 666.667 ; N union ; B 56 -22 610 598 ;  
C 92 ; WX 666.667 ; N intersection ; B 56 -22 610 598 ;  
C 93 ; WX 666.667 ; N unionmulti ; B 56 -22 610 598 ;  
C 94 ; WX 666.667 ; N logicaland ; B 56 -22 610 598 ;  
C 95 ; WX 666.667 ; N logicalor ; B 56 -22 610 598 ;  
C 96 ; WX 611.111 ; N turnstileleft ; B 56 0 554 694 ;  
C 97 ; WX 611.111 ; N turnstileright ; B 56 0 554 694 ;  
C 98 ; WX 444.444 ; N floorleft ; B 174 -250 422 750 ;  
C 99 ; WX 444.444 ; N floorright ; B 21 -250 269 750 ;  
C 100 ; WX 444.444 ; N ceilingleft ; B 174 -250 422 750 ;  
C 101 ; WX 444.444 ; N ceilingright ; B 21 -250 269 750 ;  
C 102 ; WX 500 ; N braceleft ; B 72 -250 427 750 ;  
C 103 ; WX 500 ; N braceright ; B 72 -250 427 750 ;  
C 104 ; WX 388.889 ; N angbracketleft ; B 110 -250 332 750 ;  
C 105 ; WX 388.889 ; N angbracketright ; B 56 -250 278 750 ;  
C 106 ; WX 277.778 ; N bar ; B 119 -250 159 750 ;  
C 107 ; WX 500 ; N bardbl ; B 132 -250 367 750 ;  
C 108 ; WX 500 ; N arrowbothv ; B 72 -272 428 772 ;  
C 109 ; WX 611.111 ; N arrowdblbothv ; B 30 -272 580 772 ;  
C 110 ; WX 500 ; N backslash ; B 56 -250 443 750 ;  
C 111 ; WX 277.778 ; N wreathproduct ; B 56 -83 221 583 ;  
C 112 ; WX 833.333 ; N radical ; B 73 -960 853 40 ;  
C 113 ; WX 750 ; N coproduct ; B 36 0 713 683 ;  
C 114 ; WX 833.333 ; N nabla ; B 47 -33 785 683 ;  
C 115 ; WX 416.667 ; N integral ; B 56 -216 471 716 ;  
C 116 ; WX 666.667 ; N unionsq ; B 61 0 605 598 ;  
C 117 ; WX 666.667 ; N intersectionsq ; B 61 0 605 598 ;  
C 118 ; WX 777.778 ; N subsetsqequal ; B 83 -137 714 636 ;  
C 119 ; WX 777.778 ; N supersetsqequal ; B 63 -137 694 636 ;  
C 120 ; WX 444.444 ; N section ; B 69 -205 374 705 ;  
C 121 ; WX 444.444 ; N dagger ; B 56 -216 387 705 ;  
C 122 ; WX 444.444 ; N daggerdbl ; B 56 -205 387 705 ;  
C 123 ; WX 611.111 ; N paragraph ; B 56 -194 582 694 ;  
C 124 ; WX 777.778 ; N club ; B 28 -130 750 727 ;  
C 125 ; WX 777.778 ; N diamond ; B 56 -163 722 727 ;  
C 126 ; WX 777.778 ; N heart ; B 56 -33 722 716 ;  
C 127 ; WX 777.778 ; N spade ; B 56 -130 722 727 ;  
C -1 ; WX 333.333 ; N space ; B 0 0 0 0 ;

EndCharMetrics

Comment The following are bogus kern pairs for TeX positioning of accents

StartKernData

StartKernPairs 26

KPX A prime 194.444

KPX B prime 138.889

KPX C prime 138.889

KPX D prime 83.333

KPX E prime 111.111

KPX F prime 111.111  
KPX G prime 111.111  
KPX H prime 111.111  
KPX I prime 27.778  
KPX J prime 166.667  
KPX K prime 55.556  
KPX L prime 138.889  
KPX M prime 138.889  
KPX N prime 83.333  
KPX O prime 111.111  
KPX P prime 83.333  
KPX Q prime 111.111  
KPX R prime 83.333  
KPX S prime 138.889  
KPX T prime 27.778  
KPX U prime 83.333  
KPX V prime 27.778  
KPX W prime 83.333  
KPX X prime 138.889  
KPX Y prime 83.333  
KPX Z prime 138.889

EndKernPairs

EndKernData

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue Mar 20 12:17:14 1990

Comment UniqueID 28417

Comment VMusage 30458 37350

FontName Times-Bold

FullName Times Bold

FamilyName Times

Weight Bold

ItalicAngle 0

IsFixedPitch false

FontBBox -168 -218 1000 935

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Times is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 676

XHeight 461

Ascender 676

Descender -205

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 81 -13 251 691 ;  
C 34 ; WX 555 ; N quotedbl ; B 83 404 472 691 ;  
C 35 ; WX 500 ; N numbersign ; B 4 0 496 700 ;  
C 36 ; WX 500 ; N dollar ; B 29 -99 472 750 ;  
C 37 ; WX 1000 ; N percent ; B 124 -14 877 692 ;  
C 38 ; WX 833 ; N ampersand ; B 62 -16 787 691 ;  
C 39 ; WX 333 ; N quoteright ; B 79 356 263 691 ;  
C 40 ; WX 333 ; N parenleft ; B 46 -168 306 694 ;  
C 41 ; WX 333 ; N parenright ; B 27 -168 287 694 ;  
C 42 ; WX 500 ; N asterisk ; B 56 255 447 691 ;  
C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;  
C 44 ; WX 250 ; N comma ; B 39 -180 223 155 ;  
C 45 ; WX 333 ; N hyphen ; B 44 171 287 287 ;  
C 46 ; WX 250 ; N period ; B 41 -13 210 156 ;  
C 47 ; WX 278 ; N slash ; B -24 -19 302 691 ;  
C 48 ; WX 500 ; N zero ; B 24 -13 476 688 ;  
C 49 ; WX 500 ; N one ; B 65 0 442 688 ;  
C 50 ; WX 500 ; N two ; B 17 0 478 688 ;  
C 51 ; WX 500 ; N three ; B 16 -14 468 688 ;  
C 52 ; WX 500 ; N four ; B 19 0 475 688 ;  
C 53 ; WX 500 ; N five ; B 22 -8 470 676 ;  
C 54 ; WX 500 ; N six ; B 28 -13 475 688 ;  
C 55 ; WX 500 ; N seven ; B 17 0 477 676 ;  
C 56 ; WX 500 ; N eight ; B 28 -13 472 688 ;  
C 57 ; WX 500 ; N nine ; B 26 -13 473 688 ;  
C 58 ; WX 333 ; N colon ; B 82 -13 251 472 ;  
C 59 ; WX 333 ; N semicolon ; B 82 -180 266 472 ;  
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;  
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;  
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;  
C 63 ; WX 500 ; N question ; B 57 -13 445 689 ;  
C 64 ; WX 930 ; N at ; B 108 -19 822 691 ;  
C 65 ; WX 722 ; N A ; B 9 0 689 690 ;  
C 66 ; WX 667 ; N B ; B 16 0 619 676 ;  
C 67 ; WX 722 ; N C ; B 49 -19 687 691 ;  
C 68 ; WX 722 ; N D ; B 14 0 690 676 ;  
C 69 ; WX 667 ; N E ; B 16 0 641 676 ;  
C 70 ; WX 611 ; N F ; B 16 0 583 676 ;  
C 71 ; WX 778 ; N G ; B 37 -19 755 691 ;  
C 72 ; WX 778 ; N H ; B 21 0 759 676 ;  
C 73 ; WX 389 ; N I ; B 20 0 370 676 ;  
C 74 ; WX 500 ; N J ; B 3 -96 479 676 ;  
C 75 ; WX 778 ; N K ; B 30 0 769 676 ;  
C 76 ; WX 667 ; N L ; B 19 0 638 676 ;  
C 77 ; WX 944 ; N M ; B 14 0 921 676 ;  
C 78 ; WX 722 ; N N ; B 16 -18 701 676 ;  
C 79 ; WX 778 ; N O ; B 35 -19 743 691 ;  
C 80 ; WX 611 ; N P ; B 16 0 600 676 ;



C 81 ; WX 778 ; N Q ; B 35 -176 743 691 ;  
C 82 ; WX 722 ; N R ; B 26 0 715 676 ;  
C 83 ; WX 556 ; N S ; B 35 -19 513 692 ;  
C 84 ; WX 667 ; N T ; B 31 0 636 676 ;  
C 85 ; WX 722 ; N U ; B 16 -19 701 676 ;  
C 86 ; WX 722 ; N V ; B 16 -18 701 676 ;  
C 87 ; WX 1000 ; N W ; B 19 -15 981 676 ;  
C 88 ; WX 722 ; N X ; B 16 0 699 676 ;  
C 89 ; WX 722 ; N Y ; B 15 0 699 676 ;  
C 90 ; WX 667 ; N Z ; B 28 0 634 676 ;  
C 91 ; WX 333 ; N bracketleft ; B 67 -149 301 678 ;  
C 92 ; WX 278 ; N backslash ; B -25 -19 303 691 ;  
C 93 ; WX 333 ; N bracketright ; B 32 -149 266 678 ;  
C 94 ; WX 581 ; N asciicircum ; B 73 311 509 676 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 70 356 254 691 ;  
C 97 ; WX 500 ; N a ; B 25 -14 488 473 ;  
C 98 ; WX 556 ; N b ; B 17 -14 521 676 ;  
C 99 ; WX 444 ; N c ; B 25 -14 430 473 ;  
C 100 ; WX 556 ; N d ; B 25 -14 534 676 ;  
C 101 ; WX 444 ; N e ; B 25 -14 426 473 ;  
C 102 ; WX 333 ; N f ; B 14 0 389 691 ; L i fi ; L l fl ;  
C 103 ; WX 500 ; N g ; B 28 -206 483 473 ;  
C 104 ; WX 556 ; N h ; B 16 0 534 676 ;  
C 105 ; WX 278 ; N i ; B 16 0 255 691 ;  
C 106 ; WX 333 ; N j ; B -57 -203 263 691 ;  
C 107 ; WX 556 ; N k ; B 22 0 543 676 ;  
C 108 ; WX 278 ; N l ; B 16 0 255 676 ;  
C 109 ; WX 833 ; N m ; B 16 0 814 473 ;  
C 110 ; WX 556 ; N n ; B 21 0 539 473 ;  
C 111 ; WX 500 ; N o ; B 25 -14 476 473 ;  
C 112 ; WX 556 ; N p ; B 19 -205 524 473 ;  
C 113 ; WX 556 ; N q ; B 34 -205 536 473 ;  
C 114 ; WX 444 ; N r ; B 29 0 434 473 ;  
C 115 ; WX 389 ; N s ; B 25 -14 361 473 ;  
C 116 ; WX 333 ; N t ; B 20 -12 332 630 ;  
C 117 ; WX 556 ; N u ; B 16 -14 537 461 ;  
C 118 ; WX 500 ; N v ; B 21 -14 485 461 ;  
C 119 ; WX 722 ; N w ; B 23 -14 707 461 ;  
C 120 ; WX 500 ; N x ; B 12 0 484 461 ;  
C 121 ; WX 500 ; N y ; B 16 -205 480 461 ;  
C 122 ; WX 444 ; N z ; B 21 0 420 461 ;  
C 123 ; WX 394 ; N braceleft ; B 22 -175 340 698 ;  
C 124 ; WX 220 ; N bar ; B 66 -19 154 691 ;  
C 125 ; WX 394 ; N braceright ; B 54 -175 372 698 ;  
C 126 ; WX 520 ; N asciitilde ; B 29 173 491 333 ;  
C 161 ; WX 333 ; N exclamdown ; B 82 -203 252 501 ;  
C 162 ; WX 500 ; N cent ; B 53 -140 458 588 ;

C 163 ; WX 500 ; N sterling ; B 21 -14 477 684 ;  
C 164 ; WX 167 ; N fraction ; B -168 -12 329 688 ;  
C 165 ; WX 500 ; N yen ; B -64 0 547 676 ;  
C 166 ; WX 500 ; N florin ; B 0 -155 498 706 ;  
C 167 ; WX 500 ; N section ; B 57 -132 443 691 ;  
C 168 ; WX 500 ; N currency ; B -26 61 526 613 ;  
C 169 ; WX 278 ; N quotesingle ; B 75 404 204 691 ;  
C 170 ; WX 500 ; N quotedblleft ; B 32 356 486 691 ;  
C 171 ; WX 500 ; N guillemotleft ; B 23 36 473 415 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 51 36 305 415 ;  
C 173 ; WX 333 ; N guilsinglright ; B 28 36 282 415 ;  
C 174 ; WX 556 ; N fi ; B 14 0 536 691 ;  
C 175 ; WX 556 ; N fl ; B 14 0 536 691 ;  
C 177 ; WX 500 ; N endash ; B 0 181 500 271 ;  
C 178 ; WX 500 ; N dagger ; B 47 -134 453 691 ;  
C 179 ; WX 500 ; N daggerdbl ; B 45 -132 456 691 ;  
C 180 ; WX 250 ; N periodcentered ; B 41 248 210 417 ;  
C 182 ; WX 540 ; N paragraph ; B 0 -186 519 676 ;  
C 183 ; WX 350 ; N bullet ; B 35 198 315 478 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 79 -180 263 155 ;  
C 185 ; WX 500 ; N quotedblbase ; B 14 -180 468 155 ;  
C 186 ; WX 500 ; N quotedblright ; B 14 356 468 691 ;  
C 187 ; WX 500 ; N guillemotright ; B 27 36 477 415 ;  
C 188 ; WX 1000 ; N ellipsis ; B 82 -13 917 156 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -29 995 706 ;  
C 191 ; WX 500 ; N questiondown ; B 55 -201 443 501 ;  
C 193 ; WX 333 ; N grave ; B 8 528 246 713 ;  
C 194 ; WX 333 ; N acute ; B 86 528 324 713 ;  
C 195 ; WX 333 ; N circumflex ; B -2 528 335 704 ;  
C 196 ; WX 333 ; N tilde ; B -16 547 349 674 ;  
C 197 ; WX 333 ; N macron ; B 1 565 331 637 ;  
C 198 ; WX 333 ; N breve ; B 15 528 318 691 ;  
C 199 ; WX 333 ; N dotaccent ; B 103 537 230 667 ;  
C 200 ; WX 333 ; N dieresis ; B -2 537 335 667 ;  
C 202 ; WX 333 ; N ring ; B 60 527 273 740 ;  
C 203 ; WX 333 ; N cedilla ; B 68 -218 294 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -13 528 425 713 ;  
C 206 ; WX 333 ; N ogonek ; B 90 -173 319 44 ;  
C 207 ; WX 333 ; N caron ; B -2 528 335 704 ;  
C 208 ; WX 1000 ; N emdash ; B 0 181 1000 271 ;  
C 225 ; WX 1000 ; N AE ; B 4 0 951 676 ;  
C 227 ; WX 300 ; N ordfeminine ; B -1 397 301 688 ;  
C 232 ; WX 667 ; N Lslash ; B 19 0 638 676 ;  
C 233 ; WX 778 ; N Oslash ; B 35 -74 743 737 ;  
C 234 ; WX 1000 ; N OE ; B 22 -5 981 684 ;  
C 235 ; WX 330 ; N ordmasculine ; B 18 397 312 688 ;  
C 241 ; WX 722 ; N ae ; B 33 -14 693 473 ;  
C 245 ; WX 278 ; N dotlessi ; B 16 0 255 461 ;

C 248 ; WX 278 ; N Islash ; B -22 0 303 676 ;  
C 249 ; WX 500 ; N oslash ; B 25 -92 476 549 ;  
C 250 ; WX 722 ; N oe ; B 22 -14 696 473 ;  
C 251 ; WX 556 ; N germandbls ; B 19 -12 517 691 ;  
C -1 ; WX 667 ; N Zcaron ; B 28 0 634 914 ;  
C -1 ; WX 444 ; N ccedilla ; B 25 -218 430 473 ;  
C -1 ; WX 500 ; N ydieresis ; B 16 -205 480 667 ;  
C -1 ; WX 500 ; N atilde ; B 25 -14 488 674 ;  
C -1 ; WX 278 ; N icircumflex ; B -36 0 301 704 ;  
C -1 ; WX 300 ; N threesuperior ; B 3 268 297 688 ;  
C -1 ; WX 444 ; N ecircumflex ; B 25 -14 426 704 ;  
C -1 ; WX 556 ; N thorn ; B 19 -205 524 676 ;  
C -1 ; WX 444 ; N egrave ; B 25 -14 426 713 ;  
C -1 ; WX 300 ; N twosuperior ; B 0 275 300 688 ;  
C -1 ; WX 444 ; N eacute ; B 25 -14 426 713 ;  
C -1 ; WX 500 ; N otilde ; B 25 -14 476 674 ;  
C -1 ; WX 722 ; N Aacute ; B 9 0 689 923 ;  
C -1 ; WX 500 ; N ocircumflex ; B 25 -14 476 704 ;  
C -1 ; WX 500 ; N yacute ; B 16 -205 480 713 ;  
C -1 ; WX 556 ; N udieresis ; B 16 -14 537 667 ;  
C -1 ; WX 750 ; N threequarters ; B 23 -12 733 688 ;  
C -1 ; WX 500 ; N acircumflex ; B 25 -14 488 704 ;  
C -1 ; WX 722 ; N Eth ; B 6 0 690 676 ;  
C -1 ; WX 444 ; N edieresis ; B 25 -14 426 667 ;  
C -1 ; WX 556 ; N ugrave ; B 16 -14 537 713 ;  
C -1 ; WX 1000 ; N trademark ; B 24 271 977 676 ;  
C -1 ; WX 500 ; N ograve ; B 25 -14 476 713 ;  
C -1 ; WX 389 ; N scaron ; B 25 -14 363 704 ;  
C -1 ; WX 389 ; N Idieresis ; B 20 0 370 877 ;  
C -1 ; WX 556 ; N uacute ; B 16 -14 537 713 ;  
C -1 ; WX 500 ; N agrave ; B 25 -14 488 713 ;  
C -1 ; WX 556 ; N ntilde ; B 21 0 539 674 ;  
C -1 ; WX 500 ; N aring ; B 25 -14 488 740 ;  
C -1 ; WX 444 ; N zcaron ; B 21 0 420 704 ;  
C -1 ; WX 389 ; N Icircumflex ; B 20 0 370 914 ;  
C -1 ; WX 722 ; N Ntilde ; B 16 -18 701 884 ;  
C -1 ; WX 556 ; N ucircumflex ; B 16 -14 537 704 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 16 0 641 914 ;  
C -1 ; WX 389 ; N Iacute ; B 20 0 370 923 ;  
C -1 ; WX 722 ; N Ccedilla ; B 49 -218 687 691 ;  
C -1 ; WX 778 ; N Odieresis ; B 35 -19 743 877 ;  
C -1 ; WX 556 ; N Scaron ; B 35 -19 513 914 ;  
C -1 ; WX 667 ; N Edieresis ; B 16 0 641 877 ;  
C -1 ; WX 389 ; N Igrave ; B 20 0 370 923 ;  
C -1 ; WX 500 ; N adieresis ; B 25 -14 488 667 ;  
C -1 ; WX 778 ; N Ograve ; B 35 -19 743 923 ;  
C -1 ; WX 667 ; N Egrave ; B 16 0 641 923 ;  
C -1 ; WX 722 ; N Ydieresis ; B 15 0 699 877 ;

C -1 ; WX 747 ; N registered ; B 26 -19 721 691 ;  
C -1 ; WX 778 ; N Otilde ; B 35 -19 743 884 ;  
C -1 ; WX 750 ; N onequarter ; B 28 -12 743 688 ;  
C -1 ; WX 722 ; N Ugrave ; B 16 -19 701 923 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 16 -19 701 914 ;  
C -1 ; WX 611 ; N Thorn ; B 16 0 600 676 ;  
C -1 ; WX 570 ; N divide ; B 33 -31 537 537 ;  
C -1 ; WX 722 ; N Atilde ; B 9 0 689 884 ;  
C -1 ; WX 722 ; N Uacute ; B 16 -19 701 923 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 35 -19 743 914 ;  
C -1 ; WX 570 ; N logicalnot ; B 33 108 537 399 ;  
C -1 ; WX 722 ; N Aring ; B 9 0 689 935 ;  
C -1 ; WX 278 ; N idieresis ; B -36 0 301 667 ;  
C -1 ; WX 278 ; N iacute ; B 16 0 290 713 ;  
C -1 ; WX 500 ; N aacute ; B 25 -14 488 713 ;  
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;  
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;  
C -1 ; WX 722 ; N Udieresis ; B 16 -19 701 877 ;  
C -1 ; WX 570 ; N minus ; B 33 209 537 297 ;  
C -1 ; WX 300 ; N onesuperior ; B 28 275 273 688 ;  
C -1 ; WX 667 ; N Eacute ; B 16 0 641 923 ;  
C -1 ; WX 722 ; N Acircumflex ; B 9 0 689 914 ;  
C -1 ; WX 747 ; N copyright ; B 26 -19 721 691 ;  
C -1 ; WX 722 ; N Agrave ; B 9 0 689 923 ;  
C -1 ; WX 500 ; N odieresis ; B 25 -14 476 667 ;  
C -1 ; WX 500 ; N oacute ; B 25 -14 476 713 ;  
C -1 ; WX 400 ; N degree ; B 57 402 343 688 ;  
C -1 ; WX 278 ; N igrave ; B -26 0 255 713 ;  
C -1 ; WX 556 ; N mu ; B 33 -206 536 461 ;  
C -1 ; WX 778 ; N Oacute ; B 35 -19 743 923 ;  
C -1 ; WX 500 ; N eth ; B 25 -14 476 691 ;  
C -1 ; WX 722 ; N Adieresis ; B 9 0 689 877 ;  
C -1 ; WX 722 ; N Yacute ; B 15 0 699 928 ;  
C -1 ; WX 220 ; N brokenbar ; B 66 -19 154 691 ;  
C -1 ; WX 750 ; N onehalf ; B -7 -12 775 688 ;

EndCharMetrics

StartKernData

StartKernPairs 283

KPX A y -74

KPX A w -90

KPX A v -100

KPX A u -50

KPX A quoteright -74

KPX A quotedblright 0

KPX A p -25

KPX A Y -100

KPX A W -130

KPX A V -145  
KPX A U -50  
KPX A T -95  
KPX A Q -45  
KPX A O -45  
KPX A G -55  
KPX A C -55

KPX B period 0  
KPX B comma 0  
KPX B U -10  
KPX B A -30

KPX D period -20  
KPX D comma 0  
KPX D Y -40  
KPX D W -40  
KPX D V -40  
KPX D A -35

KPX F r 0  
KPX F period -110  
KPX F o -25  
KPX F i 0  
KPX F e -25  
KPX F comma -92  
KPX F a -25  
KPX F A -90

KPX G period 0  
KPX G comma 0

KPX J u -15  
KPX J period -20  
KPX J o -15  
KPX J e -15  
KPX J comma 0  
KPX J a -15  
KPX J A -30

KPX K y -45  
KPX K u -15  
KPX K o -25  
KPX K e -25  
KPX K O -30

KPX L y -55  
KPX L quoteright -110

KPX L quotedblright -20

KPX L Y -92

KPX L W -92

KPX L V -92

KPX L T -92

KPX N period 0

KPX N comma 0

KPX N A -20

KPX O period 0

KPX O comma 0

KPX O Y -50

KPX O X -40

KPX O W -50

KPX O V -50

KPX O T -40

KPX O A -40

KPX P period -110

KPX P o -20

KPX P e -20

KPX P comma -92

KPX P a -10

KPX P A -74

KPX Q period -20

KPX Q comma 0

KPX Q U -10

KPX R Y -35

KPX R W -35

KPX R V -55

KPX R U -30

KPX R T -40

KPX R O -30

KPX S period 0

KPX S comma 0

KPX T y -74

KPX T w -74

KPX T u -92

KPX T semicolon -74

KPX T r -74

KPX T period -90

KPX T o -92

KPX T i -18

KPX T hyphen -92  
KPX T h 0  
KPX T e -92  
KPX T comma -74  
KPX T colon -74  
KPX T a -92  
KPX T O -18  
KPX T A -90

KPX U period -50  
KPX U comma -50  
KPX U A -60

KPX V u -92  
KPX V semicolon -92  
KPX V period -145  
KPX V o -100  
KPX V i -37  
KPX V hyphen -74  
KPX V e -100  
KPX V comma -129  
KPX V colon -92  
KPX V a -92  
KPX V O -45  
KPX V G -30  
KPX V A -135

KPX W y -60  
KPX W u -50  
KPX W semicolon -55  
KPX W period -92  
KPX W o -75  
KPX W i -18  
KPX W hyphen -37  
KPX W h 0  
KPX W e -65  
KPX W comma -92  
KPX W colon -55  
KPX W a -65  
KPX W O -10  
KPX W A -120

KPX Y u -92  
KPX Y semicolon -92  
KPX Y period -92  
KPX Y o -111  
KPX Y i -37  
KPX Y hyphen -92

KPX Y e -111  
KPX Y comma -92  
KPX Y colon -92  
KPX Y a -85  
KPX Y O -35  
KPX Y A -110

KPX a y 0  
KPX a w 0  
KPX a v -25  
KPX a t 0  
KPX a p 0  
KPX a g 0  
KPX a b 0

KPX b y 0  
KPX b v -15  
KPX b u -20  
KPX b period -40  
KPX b l 0  
KPX b comma 0  
KPX b b -10

KPX c y 0  
KPX c period 0  
KPX c l 0  
KPX c k 0  
KPX c h 0  
KPX c comma 0

KPX colon space 0

KPX comma space 0  
KPX comma quoteright -55  
KPX comma quotedblright -45

KPX d y 0  
KPX d w -15  
KPX d v 0  
KPX d period 0  
KPX d d 0  
KPX d comma 0

KPX e y 0  
KPX e x 0  
KPX e w 0  
KPX e v -15  
KPX e period 0



KPX e p 0  
KPX e g 0  
KPX e comma 0  
KPX e b 0

KPX f quoteright 55  
KPX f quotedblright 50  
KPX f period -15  
KPX f o -25  
KPX f l 0  
KPX f i -25  
KPX f f 0  
KPX f e 0  
KPX f dotlessi -35  
KPX f comma -15  
KPX f a 0

KPX g y 0  
KPX g r 0  
KPX g period -15  
KPX g o 0  
KPX g i 0  
KPX g g 0  
KPX g e 0  
KPX g comma 0  
KPX g a 0

KPX h y -15

KPX i v -10

KPX k y -15  
KPX k o -15  
KPX k e -10

KPX l y 0  
KPX l w 0

KPX m y 0  
KPX m u 0

KPX n y 0  
KPX n v -40  
KPX n u 0

KPX o y 0  
KPX o x 0  
KPX o w -10

KPX o v -10

KPX o g 0

KPX p y 0

KPX period quoteright -55

KPX period quotedblright -55

KPX quotedblleft quoteleft 0

KPX quotedblleft A -10

KPX quotedblright space 0

KPX quoteleft quoteleft -63

KPX quoteleft A -10

KPX quoteright v -20

KPX quoteright t 0

KPX quoteright space -74

KPX quoteright s -37

KPX quoteright r -20

KPX quoteright quoteright -63

KPX quoteright quotedblright 0

KPX quoteright l 0

KPX quoteright d -20

KPX r y 0

KPX r v -10

KPX r u 0

KPX r t 0

KPX r s 0

KPX r r 0

KPX r q -18

KPX r period -100

KPX r p -10

KPX r o -18

KPX r n -15

KPX r m 0

KPX r l 0

KPX r k 0

KPX r i 0

KPX r hyphen -37

KPX r g -10

KPX r e -18

KPX r d 0

KPX r comma -92

KPX r c -18

KPX r a 0

KPX s w 0

KPX space quoteleft 0

KPX space quotedblleft 0

KPX space Y -55

KPX space W -30

KPX space V -45

KPX space T -30

KPX space A -55

KPX v period -70

KPX v o -10

KPX v e -10

KPX v comma -55

KPX v a -10

KPX w period -70

KPX w o -10

KPX w h 0

KPX w e 0

KPX w comma -55

KPX w a 0

KPX x e 0

KPX y period -70

KPX y o -25

KPX y e -10

KPX y comma -55

KPX y a 0

KPX z o 0

KPX z e 0

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 188 210 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 188 210 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 188 210 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave 188 210 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 180 195 ;

CC Atilde 2 ; PCC A 0 0 ; PCC tilde 188 210 ;

CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 208 0 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 174 210 ;

CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 174 210 ;

CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 174 210 ;

CC Egrave 2 ; PCC E 0 0 ; PCC grave 174 210 ;

CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 210 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 210 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 210 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 210 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 210 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 210 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 210 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 210 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 210 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 210 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 210 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 222 210 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 222 210 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 222 210 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 222 210 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 210 215 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 215 210 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 210 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 77 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 77 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 77 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 77 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 77 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 77 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 62 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 62 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 62 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 62 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -34 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -34 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -34 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -34 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 112 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 84 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 84 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 28 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 105 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 105 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 105 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 105 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 84 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 56 0 ;  
EndComposites

EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Fri Jan 17 13:15:45 1992  
Comment UniqueID 37666  
Comment VMusage 34143 41035  
FontName Utopia-Italic  
FullName Utopia Italic  
FamilyName Utopia  
Weight Regular  
ItalicAngle -13  
IsFixedPitch false  
FontBBox -201 -250 1170 890  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.002  
Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.Utopia is a registered  
trademark of Adobe Systems Incorporated.  
EncodingScheme AdobeStandardEncoding  
CapHeight 692  
XHeight 502  
Ascender 742  
Descender -242  
StartCharMetrics 228  
C 32 ; WX 225 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 240 ; N exclam ; B 34 -12 290 707 ;  
C 34 ; WX 402 ; N quotedbl ; B 171 469 454 742 ;  
C 35 ; WX 530 ; N numbersign ; B 54 0 585 668 ;  
C 36 ; WX 530 ; N dollar ; B 31 -109 551 743 ;  
C 37 ; WX 826 ; N percent ; B 98 -25 795 702 ;  
C 38 ; WX 725 ; N ampersand ; B 60 -12 703 680 ;  
C 39 ; WX 216 ; N quoteright ; B 112 482 265 742 ;  
C 40 ; WX 350 ; N parenleft ; B 106 -128 458 692 ;  
C 41 ; WX 350 ; N parenright ; B -46 -128 306 692 ;  
C 42 ; WX 412 ; N asterisk ; B 106 356 458 707 ;  
C 43 ; WX 570 ; N plus ; B 58 0 542 490 ;  
C 44 ; WX 265 ; N comma ; B 11 -134 173 142 ;  
C 45 ; WX 392 ; N hyphen ; B 82 216 341 286 ;  
C 46 ; WX 265 ; N period ; B 47 -12 169 113 ;  
C 47 ; WX 270 ; N slash ; B 0 -15 341 707 ;  
C 48 ; WX 530 ; N zero ; B 60 -12 541 680 ;  
C 49 ; WX 530 ; N one ; B 74 0 429 680 ;  
C 50 ; WX 530 ; N two ; B -2 0 538 680 ;  
C 51 ; WX 530 ; N three ; B 19 -12 524 680 ;  
C 52 ; WX 530 ; N four ; B 32 0 509 668 ;  
C 53 ; WX 530 ; N five ; B 24 -12 550 668 ;  
C 54 ; WX 530 ; N six ; B 56 -12 551 680 ;  
C 55 ; WX 530 ; N seven ; B 130 -12 600 668 ;

C 56 ; WX 530 ; N eight ; B 46 -12 535 680 ;  
C 57 ; WX 530 ; N nine ; B 51 -12 536 680 ;  
C 58 ; WX 265 ; N colon ; B 47 -12 248 490 ;  
C 59 ; WX 265 ; N semicolon ; B 11 -134 248 490 ;  
C 60 ; WX 570 ; N less ; B 51 1 529 497 ;  
C 61 ; WX 570 ; N equal ; B 58 111 542 389 ;  
C 62 ; WX 570 ; N greater ; B 51 1 529 497 ;  
C 63 ; WX 425 ; N question ; B 115 -12 456 707 ;  
C 64 ; WX 794 ; N at ; B 88 -15 797 707 ;  
C 65 ; WX 624 ; N A ; B -58 0 623 692 ;  
C 66 ; WX 632 ; N B ; B 3 0 636 692 ;  
C 67 ; WX 661 ; N C ; B 79 -15 723 707 ;  
C 68 ; WX 763 ; N D ; B 5 0 767 692 ;  
C 69 ; WX 596 ; N E ; B 3 0 657 692 ;  
C 70 ; WX 571 ; N F ; B 3 0 660 692 ;  
C 71 ; WX 709 ; N G ; B 79 -15 737 707 ;  
C 72 ; WX 775 ; N H ; B 5 0 857 692 ;  
C 73 ; WX 345 ; N I ; B 5 0 428 692 ;  
C 74 ; WX 352 ; N J ; B -78 -119 436 692 ;  
C 75 ; WX 650 ; N K ; B 5 -5 786 692 ;  
C 76 ; WX 565 ; N L ; B 5 0 568 692 ;  
C 77 ; WX 920 ; N M ; B -4 0 1002 692 ;  
C 78 ; WX 763 ; N N ; B -4 0 855 692 ;  
C 79 ; WX 753 ; N O ; B 79 -15 754 707 ;  
C 80 ; WX 614 ; N P ; B 5 0 646 692 ;  
C 81 ; WX 753 ; N Q ; B 79 -203 754 707 ;  
C 82 ; WX 640 ; N R ; B 5 0 642 692 ;  
C 83 ; WX 533 ; N S ; B 34 -15 542 707 ;  
C 84 ; WX 606 ; N T ; B 102 0 708 692 ;  
C 85 ; WX 794 ; N U ; B 131 -15 880 692 ;  
C 86 ; WX 637 ; N V ; B 96 0 786 692 ;  
C 87 ; WX 946 ; N W ; B 86 0 1075 692 ;  
C 88 ; WX 632 ; N X ; B -36 0 735 692 ;  
C 89 ; WX 591 ; N Y ; B 96 0 744 692 ;  
C 90 ; WX 622 ; N Z ; B -20 0 703 692 ;  
C 91 ; WX 330 ; N bracketleft ; B 69 -128 414 692 ;  
C 92 ; WX 390 ; N backslash ; B 89 -15 371 707 ;  
C 93 ; WX 330 ; N bracketright ; B -21 -128 324 692 ;  
C 94 ; WX 570 ; N asciicircum ; B 83 228 547 668 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 216 ; N quoteleft ; B 130 488 283 748 ;  
C 97 ; WX 561 ; N a ; B 31 -12 563 502 ;  
C 98 ; WX 559 ; N b ; B 47 -12 557 742 ;  
C 99 ; WX 441 ; N c ; B 46 -12 465 502 ;  
C 100 ; WX 587 ; N d ; B 37 -12 612 742 ;  
C 101 ; WX 453 ; N e ; B 45 -12 471 502 ;  
C 102 ; WX 315 ; N f ; B -107 -242 504 742 ; L i f i ; L l f l ;  
C 103 ; WX 499 ; N g ; B -5 -242 573 512 ;

C 104 ; WX 607 ; N h ; B 57 -12 588 742 ;  
C 105 ; WX 317 ; N i ; B 79 -12 328 715 ;  
C 106 ; WX 309 ; N j ; B -95 -242 330 715 ;  
C 107 ; WX 545 ; N k ; B 57 -12 567 742 ;  
C 108 ; WX 306 ; N l ; B 76 -12 331 742 ;  
C 109 ; WX 912 ; N m ; B 63 -12 894 502 ;  
C 110 ; WX 618 ; N n ; B 63 -12 600 502 ;  
C 111 ; WX 537 ; N o ; B 49 -12 522 502 ;  
C 112 ; WX 590 ; N p ; B 22 -242 586 502 ;  
C 113 ; WX 559 ; N q ; B 38 -242 567 525 ;  
C 114 ; WX 402 ; N r ; B 69 -12 448 502 ;  
C 115 ; WX 389 ; N s ; B 19 -12 397 502 ;  
C 116 ; WX 341 ; N t ; B 84 -12 404 616 ;  
C 117 ; WX 618 ; N u ; B 89 -12 609 502 ;  
C 118 ; WX 510 ; N v ; B 84 -12 528 502 ;  
C 119 ; WX 785 ; N w ; B 87 -12 808 502 ;  
C 120 ; WX 516 ; N x ; B -4 -12 531 502 ;  
C 121 ; WX 468 ; N y ; B -40 -242 505 502 ;  
C 122 ; WX 468 ; N z ; B 4 -12 483 490 ;  
C 123 ; WX 340 ; N braceleft ; B 100 -128 423 692 ;  
C 124 ; WX 270 ; N bar ; B 130 -250 198 750 ;  
C 125 ; WX 340 ; N braceright ; B -20 -128 302 692 ;  
C 126 ; WX 570 ; N asciitilde ; B 98 176 522 318 ;  
C 161 ; WX 240 ; N exclamdown ; B -18 -217 238 502 ;  
C 162 ; WX 530 ; N cent ; B 94 -21 563 669 ;  
C 163 ; WX 530 ; N sterling ; B 9 0 549 680 ;  
C 164 ; WX 100 ; N fraction ; B -201 -24 369 698 ;  
C 165 ; WX 530 ; N yen ; B 72 0 645 668 ;  
C 166 ; WX 530 ; N florin ; B 4 -135 588 691 ;  
C 167 ; WX 530 ; N section ; B 55 -115 533 707 ;  
C 168 ; WX 530 ; N currency ; B 56 90 536 578 ;  
C 169 ; WX 216 ; N quotesingle ; B 161 469 274 742 ;  
C 170 ; WX 402 ; N quotedblleft ; B 134 488 473 748 ;  
C 171 ; WX 462 ; N guillemotleft ; B 79 41 470 435 ;  
C 172 ; WX 277 ; N guilsinglleft ; B 71 41 267 435 ;  
C 173 ; WX 277 ; N guilsinglright ; B 44 41 240 435 ;  
C 174 ; WX 607 ; N fi ; B -107 -242 589 742 ;  
C 175 ; WX 603 ; N fl ; B -107 -242 628 742 ;  
C 177 ; WX 500 ; N endash ; B 12 221 524 279 ;  
C 178 ; WX 500 ; N dagger ; B 101 -125 519 717 ;  
C 179 ; WX 490 ; N daggerdbl ; B 39 -119 509 717 ;  
C 180 ; WX 265 ; N periodcentered ; B 89 187 211 312 ;  
C 182 ; WX 560 ; N paragraph ; B 109 -101 637 692 ;  
C 183 ; WX 500 ; N bullet ; B 110 192 429 512 ;  
C 184 ; WX 216 ; N quotesinglbase ; B -7 -109 146 151 ;  
C 185 ; WX 402 ; N quotedblbase ; B -7 -109 332 151 ;  
C 186 ; WX 402 ; N quotedblright ; B 107 484 446 744 ;  
C 187 ; WX 462 ; N guillemotright ; B 29 41 420 435 ;

C 188 ; WX 1000 ; N ellipsis ; B 85 -12 873 113 ;  
C 189 ; WX 1200 ; N perthousand ; B 98 -25 1170 702 ;  
C 191 ; WX 425 ; N questiondown ; B 3 -217 344 502 ;  
C 193 ; WX 400 ; N grave ; B 146 542 368 723 ;  
C 194 ; WX 400 ; N acute ; B 214 542 436 723 ;  
C 195 ; WX 400 ; N circumflex ; B 187 546 484 720 ;  
C 196 ; WX 400 ; N tilde ; B 137 563 492 682 ;  
C 197 ; WX 400 ; N macron ; B 193 597 489 656 ;  
C 198 ; WX 400 ; N breve ; B 227 568 501 698 ;  
C 199 ; WX 402 ; N dotaccent ; B 252 570 359 680 ;  
C 200 ; WX 400 ; N dieresis ; B 172 572 487 682 ;  
C 202 ; WX 400 ; N ring ; B 186 550 402 752 ;  
C 203 ; WX 400 ; N cedilla ; B 62 -230 241 0 ;  
C 205 ; WX 400 ; N hungarumlaut ; B 176 546 455 750 ;  
C 206 ; WX 350 ; N ogonek ; B 68 -219 248 0 ;  
C 207 ; WX 400 ; N caron ; B 213 557 510 731 ;  
C 208 ; WX 1000 ; N emdash ; B 12 221 1024 279 ;  
C 225 ; WX 880 ; N AE ; B -88 0 941 692 ;  
C 227 ; WX 425 ; N ordfeminine ; B 77 265 460 590 ;  
C 232 ; WX 571 ; N Lslash ; B 11 0 574 692 ;  
C 233 ; WX 753 ; N Oslash ; B 79 -45 754 736 ;  
C 234 ; WX 1020 ; N OE ; B 79 0 1081 692 ;  
C 235 ; WX 389 ; N ordmasculine ; B 86 265 420 590 ;  
C 241 ; WX 779 ; N ae ; B 34 -12 797 514 ;  
C 245 ; WX 317 ; N dotlessi ; B 79 -12 299 502 ;  
C 248 ; WX 318 ; N lslash ; B 45 -12 376 742 ;  
C 249 ; WX 537 ; N oslash ; B 49 -39 522 529 ;  
C 250 ; WX 806 ; N oe ; B 49 -12 824 502 ;  
C 251 ; WX 577 ; N germandbls ; B -107 -242 630 742 ;  
C -1 ; WX 370 ; N onesuperior ; B 90 272 326 680 ;  
C -1 ; WX 570 ; N minus ; B 58 221 542 279 ;  
C -1 ; WX 400 ; N degree ; B 152 404 428 680 ;  
C -1 ; WX 537 ; N oacute ; B 49 -12 530 723 ;  
C -1 ; WX 753 ; N Odieresis ; B 79 -15 754 848 ;  
C -1 ; WX 537 ; N odieresis ; B 49 -12 532 682 ;  
C -1 ; WX 596 ; N Eacute ; B 3 0 657 890 ;  
C -1 ; WX 618 ; N ucircumflex ; B 89 -12 609 720 ;  
C -1 ; WX 890 ; N onequarter ; B 97 -24 805 698 ;  
C -1 ; WX 570 ; N logicalnot ; B 58 102 542 389 ;  
C -1 ; WX 596 ; N Ecircumflex ; B 3 0 657 876 ;  
C -1 ; WX 890 ; N onehalf ; B 71 -24 812 698 ;  
C -1 ; WX 753 ; N Otilde ; B 79 -15 754 842 ;  
C -1 ; WX 618 ; N uacute ; B 89 -12 609 723 ;  
C -1 ; WX 453 ; N eacute ; B 45 -12 508 723 ;  
C -1 ; WX 317 ; N iacute ; B 79 -12 398 723 ;  
C -1 ; WX 596 ; N Egrave ; B 3 0 657 890 ;  
C -1 ; WX 317 ; N icircumflex ; B 79 -12 383 720 ;  
C -1 ; WX 618 ; N mu ; B 11 -232 609 502 ;



C -1 ; WX 270 ; N brokenbar ; B 130 -175 198 675 ;  
C -1 ; WX 584 ; N thorn ; B 16 -242 580 700 ;  
C -1 ; WX 624 ; N Aring ; B -58 0 623 861 ;  
C -1 ; WX 468 ; N yacute ; B -40 -242 505 723 ;  
C -1 ; WX 591 ; N Ydieresis ; B 96 0 744 848 ;  
C -1 ; WX 1100 ; N trademark ; B 91 277 1094 692 ;  
C -1 ; WX 836 ; N registered ; B 91 -15 819 707 ;  
C -1 ; WX 537 ; N ocircumflex ; B 49 -12 522 720 ;  
C -1 ; WX 624 ; N Agrave ; B -58 0 623 890 ;  
C -1 ; WX 533 ; N Scaron ; B 34 -15 561 888 ;  
C -1 ; WX 794 ; N Ugrave ; B 131 -15 880 890 ;  
C -1 ; WX 596 ; N Edieresis ; B 3 0 657 848 ;  
C -1 ; WX 794 ; N Uacute ; B 131 -15 880 890 ;  
C -1 ; WX 537 ; N otilde ; B 49 -12 525 682 ;  
C -1 ; WX 618 ; N ntilde ; B 63 -12 600 682 ;  
C -1 ; WX 468 ; N ydieresis ; B -40 -242 513 682 ;  
C -1 ; WX 624 ; N Aacute ; B -58 0 642 890 ;  
C -1 ; WX 537 ; N eth ; B 47 -12 521 742 ;  
C -1 ; WX 561 ; N acircumflex ; B 31 -12 563 720 ;  
C -1 ; WX 561 ; N aring ; B 31 -12 563 752 ;  
C -1 ; WX 753 ; N Ograve ; B 79 -15 754 890 ;  
C -1 ; WX 441 ; N ccedilla ; B 46 -230 465 502 ;  
C -1 ; WX 570 ; N multiply ; B 88 22 532 478 ;  
C -1 ; WX 570 ; N divide ; B 58 25 542 475 ;  
C -1 ; WX 370 ; N twosuperior ; B 35 272 399 680 ;  
C -1 ; WX 763 ; N Ntilde ; B -4 0 855 842 ;  
C -1 ; WX 618 ; N ugrave ; B 89 -12 609 723 ;  
C -1 ; WX 794 ; N Ucircumflex ; B 131 -15 880 876 ;  
C -1 ; WX 624 ; N Atilde ; B -58 0 623 842 ;  
C -1 ; WX 468 ; N zcaron ; B 4 -12 484 731 ;  
C -1 ; WX 317 ; N idieresis ; B 79 -12 398 682 ;  
C -1 ; WX 624 ; N Acircumflex ; B -58 0 623 876 ;  
C -1 ; WX 345 ; N Icircumflex ; B 5 0 453 876 ;  
C -1 ; WX 591 ; N Yacute ; B 96 0 744 890 ;  
C -1 ; WX 753 ; N Oacute ; B 79 -15 754 890 ;  
C -1 ; WX 624 ; N Adieresis ; B -58 0 623 848 ;  
C -1 ; WX 622 ; N Zcaron ; B -20 0 703 888 ;  
C -1 ; WX 561 ; N agrave ; B 31 -12 563 723 ;  
C -1 ; WX 370 ; N threesuperior ; B 59 265 389 680 ;  
C -1 ; WX 537 ; N ograve ; B 49 -12 522 723 ;  
C -1 ; WX 890 ; N threequarters ; B 105 -24 816 698 ;  
C -1 ; WX 770 ; N Eth ; B 12 0 774 692 ;  
C -1 ; WX 570 ; N plusminus ; B 58 0 542 556 ;  
C -1 ; WX 618 ; N udieresis ; B 89 -12 609 682 ;  
C -1 ; WX 453 ; N edieresis ; B 45 -12 490 682 ;  
C -1 ; WX 561 ; N aacute ; B 31 -12 571 723 ;  
C -1 ; WX 317 ; N igrave ; B 55 -12 299 723 ;  
C -1 ; WX 345 ; N Idieresis ; B 5 0 461 848 ;

C -1 ; WX 561 ; N adieresis ; B 31 -12 563 682 ;  
C -1 ; WX 345 ; N Iacute ; B 5 0 506 890 ;  
C -1 ; WX 836 ; N copyright ; B 91 -15 819 707 ;  
C -1 ; WX 345 ; N Igrave ; B 5 0 428 890 ;  
C -1 ; WX 661 ; N Ccedilla ; B 79 -230 723 707 ;  
C -1 ; WX 389 ; N scaron ; B 19 -12 457 731 ;  
C -1 ; WX 453 ; N egrave ; B 45 -12 471 723 ;  
C -1 ; WX 753 ; N Ocircumflex ; B 79 -15 754 876 ;  
C -1 ; WX 604 ; N Thorn ; B 5 0 616 692 ;  
C -1 ; WX 561 ; N atilde ; B 31 -12 563 682 ;  
C -1 ; WX 794 ; N Udieresis ; B 131 -15 880 848 ;  
C -1 ; WX 453 ; N ecircumflex ; B 45 -12 475 720 ;

EndCharMetrics

StartKernData

StartKernPairs 690

KPX A y -20  
KPX A x 10  
KPX A w -30  
KPX A v -30  
KPX A u -10  
KPX A t -6  
KPX A s 15  
KPX A r -12  
KPX A quoteright -110  
KPX A quotedblright -110  
KPX A q 10  
KPX A p -12  
KPX A o -10  
KPX A n -18  
KPX A m -18  
KPX A l -18  
KPX A j 6  
KPX A h -6  
KPX A d 10  
KPX A c -6  
KPX A b -6  
KPX A a 12  
KPX A Y -76  
KPX A X -8  
KPX A W -80  
KPX A V -90  
KPX A U -60  
KPX A T -72  
KPX A Q -30  
KPX A O -30  
KPX A G -30  
KPX A C -30

KPX B y -6  
KPX B u -20  
KPX B r -15  
KPX B quoteright -40  
KPX B quotedblright -30  
KPX B o 6  
KPX B l -20  
KPX B k -15  
KPX B i -12  
KPX B h -15  
KPX B e 6  
KPX B a 12  
KPX B W -20  
KPX B V -50  
KPX B U -50  
KPX B T -20

KPX C z -6  
KPX C y -18  
KPX C u -18  
KPX C quotedblright 20  
KPX C i -5  
KPX C e -6  
KPX C a -6

KPX D y 18  
KPX D u -10  
KPX D quoteright -40  
KPX D quotedblright -50  
KPX D period -30  
KPX D o 6  
KPX D i 6  
KPX D h -25  
KPX D e 6  
KPX D comma -20  
KPX D a 6  
KPX D Y -70  
KPX D W -50  
KPX D V -60

KPX E z -6  
KPX E y -18  
KPX E x 5  
KPX E w -20  
KPX E v -18  
KPX E u -24  
KPX E t -18

KPX E s 5  
KPX E r -6  
KPX E quoteright 10  
KPX E quotedblright 10  
KPX E q 10  
KPX E period 10  
KPX E p -12  
KPX E o -6  
KPX E n -12  
KPX E m -12  
KPX E l -12  
KPX E k -10  
KPX E j -6  
KPX E i -12  
KPX E g -12  
KPX E e 5  
KPX E d 10  
KPX E comma 10  
KPX E b -6

KPX F y -12  
KPX F u -30  
KPX F r -18  
KPX F quoteright 15  
KPX F quotedblright 35  
KPX F period -180  
KPX F o -30  
KPX F l -6  
KPX F i -12  
KPX F e -30  
KPX F comma -170  
KPX F a -30  
KPX F A -45

KPX G y -16  
KPX G u -22  
KPX G r -22  
KPX G quoteright -20  
KPX G quotedblright -20  
KPX G o 10  
KPX G n -22  
KPX G l -24  
KPX G i -12  
KPX G h -18  
KPX G e 10  
KPX G a 5

KPX H y -18

KPX H u -30  
KPX H quoteright 10  
KPX H quotedblright 10  
KPX H o -12  
KPX H i -12  
KPX H e -12  
KPX H a -12

KPX I z -20  
KPX I y -6  
KPX I x -6  
KPX I w -30  
KPX I v -30  
KPX I u -30  
KPX I t -18  
KPX I s -18  
KPX I r -12  
KPX I quoteright 10  
KPX I quotedblright 10  
KPX I p -18  
KPX I o -12  
KPX I n -18  
KPX I m -18  
KPX I l -6  
KPX I k -6  
KPX I g -12  
KPX I f -6  
KPX I d -6  
KPX I c -12  
KPX I b -6  
KPX I a -6

KPX J y -12  
KPX J u -36  
KPX J quoteright 6  
KPX J quotedblright 15  
KPX J o -36  
KPX J i -30  
KPX J e -36  
KPX J braceright 10  
KPX J a -36

KPX K y -40  
KPX K w -30  
KPX K v -20  
KPX K u -24  
KPX K r -12  
KPX K quoteright 25

KPX K quotedblright 40  
KPX K o -24  
KPX K n -18  
KPX K i -6  
KPX K h 6  
KPX K e -12  
KPX K a -6  
KPX K Q -24  
KPX K O -24  
KPX K G -24  
KPX K C -24

KPX L y -55  
KPX L w -30  
KPX L u -18  
KPX L quoteright -110  
KPX L quotedblright -110  
KPX L l -16  
KPX L j -18  
KPX L i -18  
KPX L a 10  
KPX L Y -80  
KPX L W -90  
KPX L V -110  
KPX L U -42  
KPX L T -80  
KPX L Q -48  
KPX L O -48  
KPX L G -48  
KPX L C -48  
KPX L A 30

KPX M y -18  
KPX M u -24  
KPX M quoteright 6  
KPX M quotedblright 15  
KPX M o -25  
KPX M n -12  
KPX M j -18  
KPX M i -12  
KPX M e -20  
KPX M d -10  
KPX M c -20  
KPX M a -6

KPX N y -18  
KPX N u -24  
KPX N quoteright 10

KPX N quotedblright 10

KPX N o -25

KPX N i -12

KPX N e -20

KPX N a -22

KPX O z -6

KPX O y 12

KPX O w -10

KPX O v -10

KPX O u -6

KPX O t -6

KPX O s -6

KPX O r -6

KPX O quoteright -40

KPX O quotedblright -40

KPX O q 5

KPX O period -20

KPX O p -6

KPX O n -6

KPX O m -6

KPX O l -20

KPX O k -10

KPX O j -6

KPX O h -10

KPX O g -6

KPX O e 5

KPX O d 6

KPX O comma -10

KPX O c 5

KPX O b -6

KPX O a 5

KPX O Y -75

KPX O X -30

KPX O W -40

KPX O V -60

KPX O T -48

KPX O A -18

KPX P y 6

KPX P u -18

KPX P t -6

KPX P s -24

KPX P r -6

KPX P period -220

KPX P o -24

KPX P n -12

KPX P l -25

KPX P h -15  
KPX P e -24  
KPX P comma -220  
KPX P a -24  
KPX P I -30  
KPX P H -30  
KPX P E -30  
KPX P A -75

KPX Q u -6  
KPX Q quoteright -40  
KPX Q quotedblright -50  
KPX Q a -6  
KPX Q Y -70  
KPX Q X -12  
KPX Q W -35  
KPX Q V -60  
KPX Q U -35  
KPX Q T -36  
KPX Q A -18

KPX R y -14  
KPX R u -12  
KPX R quoteright -30  
KPX R quotedblright -20  
KPX R o -12  
KPX R hyphen -20  
KPX R e -12  
KPX R Y -50  
KPX R W -30  
KPX R V -40  
KPX R U -40  
KPX R T -30  
KPX R Q -10  
KPX R O -10  
KPX R G -10  
KPX R C -10  
KPX R A -6

KPX S y -30  
KPX S w -30  
KPX S v -30  
KPX S u -18  
KPX S t -30  
KPX S r -20  
KPX S quoteright -38  
KPX S quotedblright -30  
KPX S p -18



KPX S n -24  
KPX S m -24  
KPX S l -30  
KPX S k -24  
KPX S j -25  
KPX S i -30  
KPX S h -30  
KPX S e -6

KPX T z -70  
KPX T y -60  
KPX T w -64  
KPX T u -74  
KPX T semicolon -36  
KPX T s -72  
KPX T r -64  
KPX T quoteright 45  
KPX T quotedblright 50  
KPX T period -100  
KPX T parenright 54  
KPX T o -90  
KPX T m -64  
KPX T i -34  
KPX T hyphen -100  
KPX T endash -60  
KPX T emdash -60  
KPX T e -90  
KPX T comma -110  
KPX T colon -10  
KPX T bracketright 45  
KPX T braceright 54  
KPX T a -90  
KPX T Y 12  
KPX T X 18  
KPX T W 6  
KPX T T 18  
KPX T Q -12  
KPX T O -12  
KPX T G -12  
KPX T C -12  
KPX T A -56

KPX U z -30  
KPX U x -40  
KPX U t -24  
KPX U s -30  
KPX U r -30  
KPX U quoteright 10

KPX U quotedblright 10  
KPX U p -40  
KPX U n -45  
KPX U m -45  
KPX U l -12  
KPX U k -12  
KPX U i -24  
KPX U h -6  
KPX U g -30  
KPX U d -40  
KPX U c -35  
KPX U b -6  
KPX U a -40  
KPX U A -45

KPX V y -46  
KPX V u -42  
KPX V semicolon -35  
KPX V r -50  
KPX V quoteright 75  
KPX V quotedblright 70  
KPX V period -130  
KPX V parenright 64  
KPX V o -62  
KPX V i -10  
KPX V hyphen -60  
KPX V endash -20  
KPX V emdash -20  
KPX V e -52  
KPX V comma -120  
KPX V colon -18  
KPX V bracketright 64  
KPX V braceright 64  
KPX V a -60  
KPX V T 6  
KPX V A -70

KPX W y -42  
KPX W u -56  
KPX W t -20  
KPX W semicolon -28  
KPX W r -40  
KPX W quoteright 55  
KPX W quotedblright 60  
KPX W period -108  
KPX W parenright 64  
KPX W o -60  
KPX W m -35

KPX W i -10  
KPX W hyphen -40  
KPX W endash -2  
KPX W emdash -10  
KPX W e -54  
KPX W d -50  
KPX W comma -108  
KPX W colon -28  
KPX W bracketright 55  
KPX W braceright 64  
KPX W a -60  
KPX W T 12  
KPX W Q -10  
KPX W O -10  
KPX W G -10  
KPX W C -10  
KPX W A -58

KPX X y -35  
KPX X u -30  
KPX X r -6  
KPX X quoteright 35  
KPX X quotedblright 15  
KPX X i -6  
KPX X e -10  
KPX X a 5  
KPX X Y -6  
KPX X W -6  
KPX X Q -30  
KPX X O -30  
KPX X G -30  
KPX X C -30  
KPX X A -18

KPX Y v -50  
KPX Y u -58  
KPX Y t -32  
KPX Y semicolon -36  
KPX Y quoteright 65  
KPX Y quotedblright 70  
KPX Y q -100  
KPX Y period -90  
KPX Y parenright 60  
KPX Y o -72  
KPX Y l 10  
KPX Y hyphen -95  
KPX Y endash -20  
KPX Y emdash -20

KPX Y e -72  
KPX Y d -80  
KPX Y comma -80  
KPX Y colon -36  
KPX Y bracketright 64  
KPX Y braceright 75  
KPX Y a -82  
KPX Y Y 12  
KPX Y X 12  
KPX Y W 12  
KPX Y V 6  
KPX Y T 25  
KPX Y Q -5  
KPX Y O -5  
KPX Y G -5  
KPX Y C -5  
KPX Y A -36

KPX Z y -36  
KPX Z w -36  
KPX Z u -12  
KPX Z quoteright 10  
KPX Z quotedblright 10  
KPX Z o -6  
KPX Z i -12  
KPX Z e -6  
KPX Z a -6  
KPX Z Q -30  
KPX Z O -30  
KPX Z G -30  
KPX Z C -30  
KPX Z A 12

KPX a quoteright -40  
KPX a quotedblright -40

KPX b y -6  
KPX b w -15  
KPX b v -15  
KPX b quoteright -50  
KPX b quotedblright -50  
KPX b period -40  
KPX b comma -30

KPX braceleft Y 64  
KPX braceleft W 64  
KPX braceleft V 64  
KPX braceleft T 54

KPX braceleft J 80

KPX bracketleft Y 64  
KPX bracketleft W 64  
KPX bracketleft V 64  
KPX bracketleft T 54  
KPX bracketleft J 80

KPX c quoteright -20  
KPX c quotedblright -20

KPX colon space -30

KPX comma space -40  
KPX comma quoteright -80  
KPX comma quotedblright -80

KPX d quoteright -12  
KPX d quotedblright -12

KPX e x -10  
KPX e w -10  
KPX e quoteright -30  
KPX e quotedblright -30

KPX f quoteright 110  
KPX f quotedblright 110  
KPX f period -20  
KPX f parenright 100  
KPX f comma -20  
KPX f bracketright 90  
KPX f braceright 90

KPX g y 30  
KPX g p 12  
KPX g f 42

KPX h quoteright -80  
KPX h quotedblright -80

KPX j quoteright -20  
KPX j quotedblright -20  
KPX j period -35  
KPX j comma -20

KPX k quoteright -30  
KPX k quotedblright -50

KPX m quoteright -80  
KPX m quotedblright -80

KPX n quoteright -80  
KPX n quotedblright -80

KPX o z -10  
KPX o y -20  
KPX o x -20  
KPX o w -30  
KPX o v -35  
KPX o quoteright -60  
KPX o quotedblright -50  
KPX o period -30  
KPX o comma -20

KPX p z -10  
KPX p w -15  
KPX p quoteright -50  
KPX p quotedblright -70  
KPX p period -30  
KPX p comma -20

KPX parenleft Y 75  
KPX parenleft W 75  
KPX parenleft V 75  
KPX parenleft T 64  
KPX parenleft J 80

KPX period space -40  
KPX period quoteright -80  
KPX period quotedblright -80

KPX q quoteright -20  
KPX q quotedblright -30  
KPX q period -20  
KPX q comma -10

KPX quotedblleft z -30  
KPX quotedblleft x -40  
KPX quotedblleft w -12  
KPX quotedblleft v -12  
KPX quotedblleft u -12  
KPX quotedblleft t -12  
KPX quotedblleft s -30  
KPX quotedblleft r -12  
KPX quotedblleft q -40  
KPX quotedblleft p -12

KPX quotedblleft o -30  
KPX quotedblleft n -12  
KPX quotedblleft m -12  
KPX quotedblleft l 10  
KPX quotedblleft k 10  
KPX quotedblleft h 10  
KPX quotedblleft g -30  
KPX quotedblleft e -40  
KPX quotedblleft d -40  
KPX quotedblleft c -40  
KPX quotedblleft b 24  
KPX quotedblleft a -60  
KPX quotedblleft Y 12  
KPX quotedblleft X 28  
KPX quotedblleft W 28  
KPX quotedblleft V 28  
KPX quotedblleft T 36  
KPX quotedblleft A -90

KPX quotedblright space -40  
KPX quotedblright period -100  
KPX quotedblright comma -100

KPX quoteleft z -30  
KPX quoteleft y -10  
KPX quoteleft x -40  
KPX quoteleft w -12  
KPX quoteleft v -12  
KPX quoteleft u -12  
KPX quoteleft t -12  
KPX quoteleft s -30  
KPX quoteleft r -12  
KPX quoteleft quoteleft -18  
KPX quoteleft q -30  
KPX quoteleft p -12  
KPX quoteleft o -30  
KPX quoteleft n -12  
KPX quoteleft m -12  
KPX quoteleft l 10  
KPX quoteleft k 10  
KPX quoteleft h 10  
KPX quoteleft g -30  
KPX quoteleft e -30  
KPX quoteleft d -30  
KPX quoteleft c -30  
KPX quoteleft b 24  
KPX quoteleft a -45  
KPX quoteleft Y 12

KPX quoteleft X 28  
KPX quoteleft W 28  
KPX quoteleft V 28  
KPX quoteleft T 36  
KPX quoteleft A -90

KPX quoteright v -35  
KPX quoteright t -35  
KPX quoteright space -40  
KPX quoteright s -55  
KPX quoteright r -25  
KPX quoteright quoteright -18  
KPX quoteright period -100  
KPX quoteright m -25  
KPX quoteright l -12  
KPX quoteright d -70  
KPX quoteright comma -100

KPX r y 18  
KPX r w 6  
KPX r v 6  
KPX r t 8  
KPX r quotedblright -15  
KPX r q -24  
KPX r period -120  
KPX r o -6  
KPX r l -20  
KPX r k -20  
KPX r hyphen -30  
KPX r h -20  
KPX r f 8  
KPX r emdash -20  
KPX r e -26  
KPX r d -26  
KPX r comma -110  
KPX r c -12  
KPX r a -20

KPX s quoteright -40  
KPX s quotedblright -45

KPX semicolon space -30

KPX space quotesinglbase -30  
KPX space quoteleft -40  
KPX space quotedblleft -40  
KPX space quotedblbase -30  
KPX space Y -70



KPX space W -70

KPX space V -70

KPX t quoteright 10

KPX t quotedblright -10

KPX u quoteright -55

KPX u quotedblright -50

KPX v quoteright -20

KPX v quotedblright -30

KPX v q -6

KPX v period -70

KPX v o -6

KPX v e -6

KPX v d -6

KPX v comma -70

KPX v c -6

KPX v a -6

KPX w quoteright -20

KPX w quotedblright -30

KPX w period -62

KPX w comma -62

KPX x y 12

KPX x w -6

KPX x quoteright -40

KPX x quotedblright -50

KPX x q -6

KPX x o -6

KPX x e -6

KPX x d -6

KPX x c -6

KPX y quoteright -10

KPX y quotedblright -20

KPX y period -70

KPX y emdash 40

KPX y comma -60

KPX z quoteright -40

KPX z quotedblright -50

KPX z o -6

KPX z e -6

KPX z d -6

KPX z c -6

EndKernPairs

EndKernData  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Mon Jul 2 22:37:33 1990  
Comment UniqueID 31796  
Comment VMusage 37415 48307  
FontName Palatino-Italic  
FullName Palatino Italic  
FamilyName Palatino  
Weight Medium  
ItalicAngle -10  
IsFixedPitch false  
FontBBox -170 -276 1010 918  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.005  
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Palatino is a  
trademark of Linotype AG and/or its subsidiaries.  
EncodingScheme AdobeStandardEncoding  
CapHeight 692  
XHeight 482  
Ascender 733  
Descender -276  
StartCharMetrics 228  
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 76 -8 292 733 ;  
C 34 ; WX 500 ; N quotedbl ; B 140 508 455 733 ;  
C 35 ; WX 500 ; N numbersign ; B 4 0 495 692 ;  
C 36 ; WX 500 ; N dollar ; B 15 -113 452 733 ;  
C 37 ; WX 889 ; N percent ; B 74 -7 809 710 ;  
C 38 ; WX 778 ; N ampersand ; B 47 -18 766 692 ;  
C 39 ; WX 278 ; N quoteright ; B 78 488 258 733 ;  
C 40 ; WX 333 ; N parenleft ; B 54 -106 331 733 ;  
C 41 ; WX 333 ; N parenright ; B 2 -106 279 733 ;  
C 42 ; WX 389 ; N asterisk ; B 76 368 400 706 ;  
C 43 ; WX 606 ; N plus ; B 51 0 555 504 ;  
C 44 ; WX 250 ; N comma ; B 8 -143 203 123 ;  
C 45 ; WX 333 ; N hyphen ; B 19 223 304 281 ;  
C 46 ; WX 250 ; N period ; B 53 -5 158 112 ;  
C 47 ; WX 296 ; N slash ; B -40 -119 392 733 ;  
C 48 ; WX 500 ; N zero ; B 36 -11 480 699 ;  
C 49 ; WX 500 ; N one ; B 54 -3 398 699 ;  
C 50 ; WX 500 ; N two ; B 12 -3 437 699 ;  
C 51 ; WX 500 ; N three ; B 22 -11 447 699 ;  
C 52 ; WX 500 ; N four ; B 15 -3 478 699 ;  
C 53 ; WX 500 ; N five ; B 14 -11 491 693 ;  
C 54 ; WX 500 ; N six ; B 49 -11 469 699 ;

C 55 ; WX 500 ; N seven ; B 53 -3 502 692 ;  
C 56 ; WX 500 ; N eight ; B 36 -11 469 699 ;  
C 57 ; WX 500 ; N nine ; B 32 -11 468 699 ;  
C 58 ; WX 250 ; N colon ; B 44 -5 207 458 ;  
C 59 ; WX 250 ; N semicolon ; B -9 -146 219 456 ;  
C 60 ; WX 606 ; N less ; B 53 -6 554 516 ;  
C 61 ; WX 606 ; N equal ; B 51 126 555 378 ;  
C 62 ; WX 606 ; N greater ; B 53 -6 554 516 ;  
C 63 ; WX 500 ; N question ; B 114 -8 427 706 ;  
C 64 ; WX 747 ; N at ; B 27 -18 718 706 ;  
C 65 ; WX 722 ; N A ; B -19 -3 677 705 ;  
C 66 ; WX 611 ; N B ; B 26 -6 559 692 ;  
C 67 ; WX 667 ; N C ; B 45 -18 651 706 ;  
C 68 ; WX 778 ; N D ; B 28 -3 741 692 ;  
C 69 ; WX 611 ; N E ; B 30 -3 570 692 ;  
C 70 ; WX 556 ; N F ; B 0 -3 548 692 ;  
C 71 ; WX 722 ; N G ; B 50 -18 694 706 ;  
C 72 ; WX 778 ; N H ; B -3 -3 800 692 ;  
C 73 ; WX 333 ; N I ; B 7 -3 354 692 ;  
C 74 ; WX 333 ; N J ; B -35 -206 358 692 ;  
C 75 ; WX 667 ; N K ; B 13 -3 683 692 ;  
C 76 ; WX 556 ; N L ; B 16 -3 523 692 ;  
C 77 ; WX 944 ; N M ; B -19 -18 940 692 ;  
C 78 ; WX 778 ; N N ; B 2 -11 804 692 ;  
C 79 ; WX 778 ; N O ; B 53 -18 748 706 ;  
C 80 ; WX 611 ; N P ; B 9 -3 594 692 ;  
C 81 ; WX 778 ; N Q ; B 53 -201 748 706 ;  
C 82 ; WX 667 ; N R ; B 9 -3 639 692 ;  
C 83 ; WX 556 ; N S ; B 42 -18 506 706 ;  
C 84 ; WX 611 ; N T ; B 53 -3 635 692 ;  
C 85 ; WX 778 ; N U ; B 88 -18 798 692 ;  
C 86 ; WX 722 ; N V ; B 75 -8 754 692 ;  
C 87 ; WX 944 ; N W ; B 71 -8 980 700 ;  
C 88 ; WX 722 ; N X ; B 20 -3 734 692 ;  
C 89 ; WX 667 ; N Y ; B 52 -3 675 705 ;  
C 90 ; WX 667 ; N Z ; B 20 -3 637 692 ;  
C 91 ; WX 333 ; N bracketleft ; B 18 -100 326 733 ;  
C 92 ; WX 606 ; N backslash ; B 81 0 513 733 ;  
C 93 ; WX 333 ; N bracketright ; B 7 -100 315 733 ;  
C 94 ; WX 606 ; N asciicircum ; B 51 283 554 689 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 78 488 258 733 ;  
C 97 ; WX 444 ; N a ; B 4 -11 406 482 ;  
C 98 ; WX 463 ; N b ; B 37 -11 433 733 ;  
C 99 ; WX 407 ; N c ; B 25 -11 389 482 ;  
C 100 ; WX 500 ; N d ; B 17 -11 483 733 ;  
C 101 ; WX 389 ; N e ; B 15 -11 374 482 ;  
C 102 ; WX 278 ; N f ; B -162 -276 413 733 ; L i f i ; L l f l ;

C 103 ; WX 500 ; N g ; B -37 -276 498 482 ;  
C 104 ; WX 500 ; N h ; B 10 -9 471 733 ;  
C 105 ; WX 278 ; N i ; B 34 -9 264 712 ;  
C 106 ; WX 278 ; N j ; B -70 -276 265 712 ;  
C 107 ; WX 444 ; N k ; B 8 -9 449 733 ;  
C 108 ; WX 278 ; N l ; B 36 -9 251 733 ;  
C 109 ; WX 778 ; N m ; B 24 -9 740 482 ;  
C 110 ; WX 556 ; N n ; B 24 -9 514 482 ;  
C 111 ; WX 444 ; N o ; B 17 -11 411 482 ;  
C 112 ; WX 500 ; N p ; B -7 -276 465 482 ;  
C 113 ; WX 463 ; N q ; B 24 -276 432 482 ;  
C 114 ; WX 389 ; N r ; B 26 -9 384 482 ;  
C 115 ; WX 389 ; N s ; B 9 -11 345 482 ;  
C 116 ; WX 333 ; N t ; B 41 -9 310 646 ;  
C 117 ; WX 556 ; N u ; B 32 -11 512 482 ;  
C 118 ; WX 500 ; N v ; B 21 -11 477 482 ;  
C 119 ; WX 722 ; N w ; B 21 -11 699 482 ;  
C 120 ; WX 500 ; N x ; B 9 -11 484 482 ;  
C 121 ; WX 500 ; N y ; B -8 -276 490 482 ;  
C 122 ; WX 444 ; N z ; B -1 -11 416 482 ;  
C 123 ; WX 333 ; N braceleft ; B 15 -100 319 733 ;  
C 124 ; WX 606 ; N bar ; B 275 0 331 733 ;  
C 125 ; WX 333 ; N braceright ; B 14 -100 318 733 ;  
C 126 ; WX 606 ; N asciitilde ; B 51 168 555 339 ;  
C 161 ; WX 333 ; N exclamdown ; B 15 -276 233 467 ;  
C 162 ; WX 500 ; N cent ; B 56 -96 418 551 ;  
C 163 ; WX 500 ; N sterling ; B 2 -18 479 708 ;  
C 164 ; WX 167 ; N fraction ; B -170 0 337 699 ;  
C 165 ; WX 500 ; N yen ; B 35 -3 512 699 ;  
C 166 ; WX 500 ; N florin ; B 5 -276 470 708 ;  
C 167 ; WX 500 ; N section ; B 14 -220 463 706 ;  
C 168 ; WX 500 ; N currency ; B 14 115 486 577 ;  
C 169 ; WX 333 ; N quotesingle ; B 140 508 288 733 ;  
C 170 ; WX 500 ; N quotedblleft ; B 98 488 475 733 ;  
C 171 ; WX 500 ; N guillemotleft ; B 57 70 437 440 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 57 70 270 440 ;  
C 173 ; WX 333 ; N guilsinglright ; B 63 70 276 440 ;  
C 174 ; WX 528 ; N fi ; B -162 -276 502 733 ;  
C 175 ; WX 545 ; N fl ; B -162 -276 520 733 ;  
C 177 ; WX 500 ; N endash ; B -10 228 510 278 ;  
C 178 ; WX 500 ; N dagger ; B 48 0 469 692 ;  
C 179 ; WX 500 ; N daggerdbl ; B 10 -162 494 692 ;  
C 180 ; WX 250 ; N periodcentered ; B 53 195 158 312 ;  
C 182 ; WX 500 ; N paragraph ; B 33 -224 611 692 ;  
C 183 ; WX 500 ; N bullet ; B 86 182 430 526 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 27 -122 211 120 ;  
C 185 ; WX 500 ; N quotedblbase ; B 43 -122 424 120 ;  
C 186 ; WX 500 ; N quotedblright ; B 98 488 475 733 ;

C 187 ; WX 500 ; N guillemotright ; B 63 70 443 440 ;  
C 188 ; WX 1000 ; N ellipsis ; B 102 -5 873 112 ;  
C 189 ; WX 1000 ; N perthousand ; B 72 -6 929 717 ;  
C 191 ; WX 500 ; N questiondown ; B 57 -246 370 467 ;  
C 193 ; WX 333 ; N grave ; B 86 518 310 687 ;  
C 194 ; WX 333 ; N acute ; B 122 518 346 687 ;  
C 195 ; WX 333 ; N circumflex ; B 56 510 350 679 ;  
C 196 ; WX 333 ; N tilde ; B 63 535 390 638 ;  
C 197 ; WX 333 ; N macron ; B 74 538 386 589 ;  
C 198 ; WX 333 ; N breve ; B 92 518 393 677 ;  
C 199 ; WX 333 ; N dotaccent ; B 175 537 283 645 ;  
C 200 ; WX 333 ; N dieresis ; B 78 537 378 637 ;  
C 202 ; WX 333 ; N ring ; B 159 508 359 708 ;  
C 203 ; WX 333 ; N cedilla ; B -9 -216 202 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 46 518 385 730 ;  
C 206 ; WX 333 ; N ogonek ; B 38 -207 196 -18 ;  
C 207 ; WX 333 ; N caron ; B 104 510 409 679 ;  
C 208 ; WX 1000 ; N emdash ; B -10 228 1010 278 ;  
C 225 ; WX 941 ; N AE ; B -4 -3 902 692 ;  
C 227 ; WX 333 ; N ordfeminine ; B 60 404 321 699 ;  
C 232 ; WX 556 ; N Lslash ; B -16 -3 523 692 ;  
C 233 ; WX 778 ; N Oslash ; B 32 -39 762 721 ;  
C 234 ; WX 1028 ; N OE ; B 56 -18 989 706 ;  
C 235 ; WX 333 ; N ordmasculine ; B 66 404 322 699 ;  
C 241 ; WX 638 ; N ae ; B 1 -11 623 482 ;  
C 245 ; WX 278 ; N dotlessi ; B 34 -9 241 482 ;  
C 248 ; WX 278 ; N lslash ; B -10 -9 302 733 ;  
C 249 ; WX 444 ; N oslash ; B -18 -24 460 510 ;  
C 250 ; WX 669 ; N oe ; B 17 -11 654 482 ;  
C 251 ; WX 500 ; N germandbls ; B -160 -276 488 733 ;  
C -1 ; WX 667 ; N Zcaron ; B 20 -3 637 907 ;  
C -1 ; WX 407 ; N ccedilla ; B 25 -216 389 482 ;  
C -1 ; WX 500 ; N ydieresis ; B -8 -276 490 657 ;  
C -1 ; WX 444 ; N atilde ; B 4 -11 446 650 ;  
C -1 ; WX 278 ; N icircumflex ; B 29 -9 323 699 ;  
C -1 ; WX 300 ; N threesuperior ; B 28 273 304 699 ;  
C -1 ; WX 389 ; N ecircumflex ; B 15 -11 398 699 ;  
C -1 ; WX 500 ; N thorn ; B -39 -276 433 733 ;  
C -1 ; WX 389 ; N egrave ; B 15 -11 374 707 ;  
C -1 ; WX 300 ; N twosuperior ; B 13 278 290 699 ;  
C -1 ; WX 389 ; N eacute ; B 15 -11 394 707 ;  
C -1 ; WX 444 ; N otilde ; B 17 -11 446 650 ;  
C -1 ; WX 722 ; N Aacute ; B -19 -3 677 897 ;  
C -1 ; WX 444 ; N ocircumflex ; B 17 -11 411 699 ;  
C -1 ; WX 500 ; N yacute ; B -8 -276 490 707 ;  
C -1 ; WX 556 ; N udieresis ; B 32 -11 512 657 ;  
C -1 ; WX 750 ; N threequarters ; B 35 -2 715 699 ;  
C -1 ; WX 444 ; N acircumflex ; B 4 -11 406 699 ;

C -1 ; WX 778 ; N Eth ; B 19 -3 741 692 ;  
C -1 ; WX 389 ; N edieresis ; B 15 -11 406 657 ;  
C -1 ; WX 556 ; N ugrave ; B 32 -11 512 707 ;  
C -1 ; WX 1000 ; N trademark ; B 52 285 951 689 ;  
C -1 ; WX 444 ; N ograve ; B 17 -11 411 707 ;  
C -1 ; WX 389 ; N scaron ; B 9 -11 419 687 ;  
C -1 ; WX 333 ; N Idieresis ; B 7 -3 418 847 ;  
C -1 ; WX 556 ; N uacute ; B 32 -11 512 707 ;  
C -1 ; WX 444 ; N agrave ; B 4 -11 406 707 ;  
C -1 ; WX 556 ; N tilde ; B 24 -9 514 650 ;  
C -1 ; WX 444 ; N aring ; B 4 -11 406 728 ;  
C -1 ; WX 444 ; N zcaron ; B -1 -11 447 687 ;  
C -1 ; WX 333 ; N Icircumflex ; B 7 -3 390 889 ;  
C -1 ; WX 778 ; N Ntilde ; B 2 -11 804 866 ;  
C -1 ; WX 556 ; N ucircumflex ; B 32 -11 512 699 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 30 -3 570 889 ;  
C -1 ; WX 333 ; N Iacute ; B 7 -3 406 897 ;  
C -1 ; WX 667 ; N Ccedilla ; B 45 -216 651 706 ;  
C -1 ; WX 778 ; N Odieresis ; B 53 -18 748 847 ;  
C -1 ; WX 556 ; N Scaron ; B 42 -18 539 907 ;  
C -1 ; WX 611 ; N Edieresis ; B 30 -3 570 847 ;  
C -1 ; WX 333 ; N Igrave ; B 7 -3 354 897 ;  
C -1 ; WX 444 ; N adieresis ; B 4 -11 434 657 ;  
C -1 ; WX 778 ; N Ograve ; B 53 -18 748 897 ;  
C -1 ; WX 611 ; N Egrave ; B 30 -3 570 897 ;  
C -1 ; WX 667 ; N Ydieresis ; B 52 -3 675 847 ;  
C -1 ; WX 747 ; N registered ; B 11 -18 736 706 ;  
C -1 ; WX 778 ; N Otilde ; B 53 -18 748 866 ;  
C -1 ; WX 750 ; N onequarter ; B 31 -2 715 699 ;  
C -1 ; WX 778 ; N Ugrave ; B 88 -18 798 897 ;  
C -1 ; WX 778 ; N Ucircumflex ; B 88 -18 798 889 ;  
C -1 ; WX 611 ; N Thorn ; B 9 -3 570 692 ;  
C -1 ; WX 606 ; N divide ; B 51 0 555 504 ;  
C -1 ; WX 722 ; N Atilde ; B -19 -3 677 866 ;  
C -1 ; WX 778 ; N Uacute ; B 88 -18 798 897 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 53 -18 748 889 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 118 555 378 ;  
C -1 ; WX 722 ; N Aring ; B -19 -3 677 918 ;  
C -1 ; WX 278 ; N idieresis ; B 34 -9 351 657 ;  
C -1 ; WX 278 ; N iacute ; B 34 -9 331 707 ;  
C -1 ; WX 444 ; N aacute ; B 4 -11 414 707 ;  
C -1 ; WX 606 ; N plusminus ; B 51 0 555 504 ;  
C -1 ; WX 606 ; N multiply ; B 83 36 523 474 ;  
C -1 ; WX 778 ; N Udieresis ; B 88 -18 798 847 ;  
C -1 ; WX 606 ; N minus ; B 51 224 555 280 ;  
C -1 ; WX 300 ; N onesuperior ; B 61 278 285 699 ;  
C -1 ; WX 611 ; N Eacute ; B 30 -3 570 897 ;  
C -1 ; WX 722 ; N Acircumflex ; B -19 -3 677 889 ;

C -1 ; WX 747 ; N copyright ; B 11 -18 736 706 ;  
C -1 ; WX 722 ; N Agrave ; B -19 -3 677 897 ;  
C -1 ; WX 444 ; N odieresis ; B 17 -11 434 657 ;  
C -1 ; WX 444 ; N oacute ; B 17 -11 414 707 ;  
C -1 ; WX 400 ; N degree ; B 90 389 390 689 ;  
C -1 ; WX 278 ; N igrave ; B 34 -9 271 707 ;  
C -1 ; WX 556 ; N mu ; B 15 -226 512 482 ;  
C -1 ; WX 778 ; N Oacute ; B 53 -18 748 897 ;  
C -1 ; WX 444 ; N eth ; B 17 -11 478 733 ;  
C -1 ; WX 722 ; N Adieresis ; B -19 -3 677 847 ;  
C -1 ; WX 667 ; N Yacute ; B 52 -3 675 897 ;  
C -1 ; WX 606 ; N brokenbar ; B 275 0 331 733 ;  
C -1 ; WX 750 ; N onehalf ; B 31 -2 721 699 ;

EndCharMetrics

StartKernData

StartKernPairs 106

KPX A y -55

KPX A w -37

KPX A v -37

KPX A space -37

KPX A quoteright -55

KPX A Y -55

KPX A W -55

KPX A V -74

KPX A T -55

KPX F period -111

KPX F comma -111

KPX F A -111

KPX L y -37

KPX L space -18

KPX L quoteright -37

KPX L Y -74

KPX L W -74

KPX L V -74

KPX L T -74

KPX P period -129

KPX P comma -129

KPX P A -129

KPX R y -37

KPX R Y -55

KPX R W -55

KPX R V -74

KPX R T -55

KPX T y -92  
KPX T w -92  
KPX T u -111  
KPX T semicolon -74  
KPX T s -111  
KPX T r -111  
KPX T period -74  
KPX T o -111  
KPX T i -55  
KPX T hyphen -55  
KPX T e -111  
KPX T comma -74  
KPX T colon -74  
KPX T c -111  
KPX T a -111  
KPX T O -18  
KPX T A -92

KPX V y -74  
KPX V u -74  
KPX V semicolon -37  
KPX V r -92  
KPX V period -129  
KPX V o -74  
KPX V i -74  
KPX V hyphen -55  
KPX V e -92  
KPX V comma -129  
KPX V colon -37  
KPX V a -74  
KPX V A -210

KPX W y -20  
KPX W u -20  
KPX W semicolon -18  
KPX W r -20  
KPX W period -55  
KPX W o -20  
KPX W i -20  
KPX W hyphen -18  
KPX W e -20  
KPX W comma -55  
KPX W colon -18  
KPX W a -20  
KPX W A -92

KPX Y v -74



KPX Y u -92  
KPX Y semicolon -74  
KPX Y q -92  
KPX Y period -92  
KPX Y p -74  
KPX Y o -111  
KPX Y i -55  
KPX Y hyphen -74  
KPX Y e -111  
KPX Y comma -92  
KPX Y colon -74  
KPX Y a -92  
KPX Y A -92

KPX f quoteright 55

KPX one one -55

KPX quoteleft quoteleft -74

KPX quoteright t -37  
KPX quoteright space -55  
KPX quoteright s -55  
KPX quoteright quoteright -74

KPX r quoteright 37  
KPX r q -18  
KPX r period -74  
KPX r o -18  
KPX r h -18  
KPX r g -18  
KPX r e -18  
KPX r comma -74  
KPX r c -18

KPX v period -55  
KPX v comma -55

KPX w period -55  
KPX w comma -55

KPX y period -37  
KPX y comma -37

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 271 210 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 261 210 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 255 210 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 235 210 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 235 210 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 255 228 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 207 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 199 210 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 179 210 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 179 210 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 210 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 60 210 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 40 210 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 40 210 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 210 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 263 228 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 283 210 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 263 210 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 255 210 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 251 210 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 263 228 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 130 228 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 277 210 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 255 210 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 210 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 235 210 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 227 210 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 187 210 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 179 228 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 68 20 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 56 20 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 56 20 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 44 20 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 36 20 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 56 12 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 37 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 48 20 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 48 20 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 28 20 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 16 20 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -15 20 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 20 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 20 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -39 20 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 112 12 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 68 20 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 56 20 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 56 20 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 36 20 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 56 12 ;

CC scaron 2 ; PCC s 0 0 ; PCC caron 10 8 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 124 20 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 112 20 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 112 20 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 100 20 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 96 20 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 20 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 38 8 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu Mar 15 11:47:27 1990

Comment UniqueID 28398

Comment VMusage 7614 43068

FontName Helvetica-Narrow-Bold

FullName Helvetica Narrow Bold

FamilyName Helvetica

Weight Bold

ItalicAngle 0

IsFixedPitch false

FontBBox -139 -228 822 962

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 228 ; N space ; B 0 0 0 0 ;

C 33 ; WX 273 ; N exclam ; B 74 0 200 718 ;

C 34 ; WX 389 ; N quotedbl ; B 80 447 308 718 ;

C 35 ; WX 456 ; N numbersign ; B 15 0 441 698 ;

C 36 ; WX 456 ; N dollar ; B 25 -115 429 775 ;

C 37 ; WX 729 ; N percent ; B 23 -19 706 710 ;

C 38 ; WX 592 ; N ampersand ; B 44 -19 575 718 ;

C 39 ; WX 228 ; N quoteright ; B 57 445 171 718 ;

C 40 ; WX 273 ; N parenleft ; B 29 -208 257 734 ;

C 41 ; WX 273 ; N parenright ; B 16 -208 244 734 ;

C 42 ; WX 319 ; N asterisk ; B 22 387 297 718 ;

C 43 ; WX 479 ; N plus ; B 33 0 446 506 ;

C 44 ; WX 228 ; N comma ; B 52 -168 175 146 ;

C 45 ; WX 273 ; N hyphen ; B 22 215 251 345 ;

C 46 ; WX 228 ; N period ; B 52 0 175 146 ;

C 47 ; WX 228 ; N slash ; B -27 -19 255 737 ;  
C 48 ; WX 456 ; N zero ; B 26 -19 430 710 ;  
C 49 ; WX 456 ; N one ; B 57 0 310 710 ;  
C 50 ; WX 456 ; N two ; B 21 0 419 710 ;  
C 51 ; WX 456 ; N three ; B 22 -19 423 710 ;  
C 52 ; WX 456 ; N four ; B 22 0 431 710 ;  
C 53 ; WX 456 ; N five ; B 22 -19 423 698 ;  
C 54 ; WX 456 ; N six ; B 25 -19 426 710 ;  
C 55 ; WX 456 ; N seven ; B 20 0 433 698 ;  
C 56 ; WX 456 ; N eight ; B 26 -19 430 710 ;  
C 57 ; WX 456 ; N nine ; B 25 -19 428 710 ;  
C 58 ; WX 273 ; N colon ; B 75 0 198 512 ;  
C 59 ; WX 273 ; N semicolon ; B 75 -168 198 512 ;  
C 60 ; WX 479 ; N less ; B 31 -8 448 514 ;  
C 61 ; WX 479 ; N equal ; B 33 87 446 419 ;  
C 62 ; WX 479 ; N greater ; B 31 -8 448 514 ;  
C 63 ; WX 501 ; N question ; B 49 0 456 727 ;  
C 64 ; WX 800 ; N at ; B 97 -19 702 737 ;  
C 65 ; WX 592 ; N A ; B 16 0 576 718 ;  
C 66 ; WX 592 ; N B ; B 62 0 549 718 ;  
C 67 ; WX 592 ; N C ; B 36 -19 561 737 ;  
C 68 ; WX 592 ; N D ; B 62 0 562 718 ;  
C 69 ; WX 547 ; N E ; B 62 0 509 718 ;  
C 70 ; WX 501 ; N F ; B 62 0 481 718 ;  
C 71 ; WX 638 ; N G ; B 36 -19 585 737 ;  
C 72 ; WX 592 ; N H ; B 58 0 534 718 ;  
C 73 ; WX 228 ; N I ; B 52 0 175 718 ;  
C 74 ; WX 456 ; N J ; B 18 -18 397 718 ;  
C 75 ; WX 592 ; N K ; B 71 0 592 718 ;  
C 76 ; WX 501 ; N L ; B 62 0 478 718 ;  
C 77 ; WX 683 ; N M ; B 57 0 627 718 ;  
C 78 ; WX 592 ; N N ; B 57 0 536 718 ;  
C 79 ; WX 638 ; N O ; B 36 -19 602 737 ;  
C 80 ; WX 547 ; N P ; B 62 0 514 718 ;  
C 81 ; WX 638 ; N Q ; B 36 -52 604 737 ;  
C 82 ; WX 592 ; N R ; B 62 0 555 718 ;  
C 83 ; WX 547 ; N S ; B 32 -19 516 737 ;  
C 84 ; WX 501 ; N T ; B 11 0 490 718 ;  
C 85 ; WX 592 ; N U ; B 59 -19 534 718 ;  
C 86 ; WX 547 ; N V ; B 16 0 531 718 ;  
C 87 ; WX 774 ; N W ; B 13 0 762 718 ;  
C 88 ; WX 547 ; N X ; B 11 0 535 718 ;  
C 89 ; WX 547 ; N Y ; B 12 0 535 718 ;  
C 90 ; WX 501 ; N Z ; B 20 0 481 718 ;  
C 91 ; WX 273 ; N bracketleft ; B 52 -196 253 722 ;  
C 92 ; WX 228 ; N backslash ; B -27 -19 255 737 ;  
C 93 ; WX 273 ; N bracketright ; B 20 -196 221 722 ;  
C 94 ; WX 479 ; N asciicircum ; B 51 323 428 698 ;

C 95 ; WX 456 ; N underscore ; B 0 -125 456 -75 ;  
C 96 ; WX 228 ; N quoteleft ; B 57 454 171 727 ;  
C 97 ; WX 456 ; N a ; B 24 -14 432 546 ;  
C 98 ; WX 501 ; N b ; B 50 -14 474 718 ;  
C 99 ; WX 456 ; N c ; B 28 -14 430 546 ;  
C 100 ; WX 501 ; N d ; B 28 -14 452 718 ;  
C 101 ; WX 456 ; N e ; B 19 -14 433 546 ;  
C 102 ; WX 273 ; N f ; B 8 0 261 727 ; L i f i ; L l f l ;  
C 103 ; WX 501 ; N g ; B 33 -217 453 546 ;  
C 104 ; WX 501 ; N h ; B 53 0 448 718 ;  
C 105 ; WX 228 ; N i ; B 57 0 171 725 ;  
C 106 ; WX 228 ; N j ; B 2 -214 171 725 ;  
C 107 ; WX 456 ; N k ; B 57 0 461 718 ;  
C 108 ; WX 228 ; N l ; B 57 0 171 718 ;  
C 109 ; WX 729 ; N m ; B 52 0 677 546 ;  
C 110 ; WX 501 ; N n ; B 53 0 448 546 ;  
C 111 ; WX 501 ; N o ; B 28 -14 474 546 ;  
C 112 ; WX 501 ; N p ; B 51 -207 474 546 ;  
C 113 ; WX 501 ; N q ; B 28 -207 453 546 ;  
C 114 ; WX 319 ; N r ; B 52 0 306 546 ;  
C 115 ; WX 456 ; N s ; B 25 -14 426 546 ;  
C 116 ; WX 273 ; N t ; B 8 -6 253 676 ;  
C 117 ; WX 501 ; N u ; B 54 -14 447 532 ;  
C 118 ; WX 456 ; N v ; B 11 0 445 532 ;  
C 119 ; WX 638 ; N w ; B 8 0 631 532 ;  
C 120 ; WX 456 ; N x ; B 12 0 444 532 ;  
C 121 ; WX 456 ; N y ; B 8 -214 442 532 ;  
C 122 ; WX 410 ; N z ; B 16 0 394 532 ;  
C 123 ; WX 319 ; N braceleft ; B 39 -196 299 722 ;  
C 124 ; WX 230 ; N bar ; B 69 -19 161 737 ;  
C 125 ; WX 319 ; N braceright ; B 20 -196 280 722 ;  
C 126 ; WX 479 ; N asciitilde ; B 50 163 429 343 ;  
C 161 ; WX 273 ; N exclamdown ; B 74 -186 200 532 ;  
C 162 ; WX 456 ; N cent ; B 28 -118 430 628 ;  
C 163 ; WX 456 ; N sterling ; B 23 -16 444 718 ;  
C 164 ; WX 137 ; N fraction ; B -139 -19 276 710 ;  
C 165 ; WX 456 ; N yen ; B -7 0 463 698 ;  
C 166 ; WX 456 ; N florin ; B -8 -210 423 737 ;  
C 167 ; WX 456 ; N section ; B 28 -184 428 727 ;  
C 168 ; WX 456 ; N currency ; B -2 76 458 636 ;  
C 169 ; WX 195 ; N quotesingle ; B 57 447 138 718 ;  
C 170 ; WX 410 ; N quotedblleft ; B 52 454 358 727 ;  
C 171 ; WX 456 ; N guillemotleft ; B 72 76 384 484 ;  
C 172 ; WX 273 ; N guilsinglleft ; B 68 76 205 484 ;  
C 173 ; WX 273 ; N guilsinglright ; B 68 76 205 484 ;  
C 174 ; WX 501 ; N fi ; B 8 0 444 727 ;  
C 175 ; WX 501 ; N fl ; B 8 0 444 727 ;  
C 177 ; WX 456 ; N endash ; B 0 227 456 333 ;

C 178 ; WX 456 ; N dagger ; B 30 -171 426 718 ;  
C 179 ; WX 456 ; N daggerdbl ; B 30 -171 426 718 ;  
C 180 ; WX 228 ; N periodcentered ; B 48 172 180 334 ;  
C 182 ; WX 456 ; N paragraph ; B -7 -191 442 700 ;  
C 183 ; WX 287 ; N bullet ; B 8 194 279 524 ;  
C 184 ; WX 228 ; N quotesinglbase ; B 57 -146 171 127 ;  
C 185 ; WX 410 ; N quotedblbase ; B 52 -146 358 127 ;  
C 186 ; WX 410 ; N quotedblright ; B 52 445 358 718 ;  
C 187 ; WX 456 ; N guillemotright ; B 72 76 384 484 ;  
C 188 ; WX 820 ; N ellipsis ; B 75 0 745 146 ;  
C 189 ; WX 820 ; N perthousand ; B -2 -19 822 710 ;  
C 191 ; WX 501 ; N questiondown ; B 45 -195 452 532 ;  
C 193 ; WX 273 ; N grave ; B -19 604 184 750 ;  
C 194 ; WX 273 ; N acute ; B 89 604 292 750 ;  
C 195 ; WX 273 ; N circumflex ; B -8 604 281 750 ;  
C 196 ; WX 273 ; N tilde ; B -14 610 287 737 ;  
C 197 ; WX 273 ; N macron ; B -5 604 278 678 ;  
C 198 ; WX 273 ; N breve ; B -2 604 275 750 ;  
C 199 ; WX 273 ; N dotaccent ; B 85 614 189 729 ;  
C 200 ; WX 273 ; N dieresis ; B 5 614 268 729 ;  
C 202 ; WX 273 ; N ring ; B 48 568 225 776 ;  
C 203 ; WX 273 ; N cedilla ; B 5 -228 201 0 ;  
C 205 ; WX 273 ; N hungarumlaut ; B 7 604 399 750 ;  
C 206 ; WX 273 ; N ogonek ; B 58 -228 249 0 ;  
C 207 ; WX 273 ; N caron ; B -8 604 281 750 ;  
C 208 ; WX 820 ; N emdash ; B 0 227 820 333 ;  
C 225 ; WX 820 ; N AE ; B 4 0 782 718 ;  
C 227 ; WX 303 ; N ordfeminine ; B 18 276 285 737 ;  
C 232 ; WX 501 ; N Lslash ; B -16 0 478 718 ;  
C 233 ; WX 638 ; N Oslash ; B 27 -27 610 745 ;  
C 234 ; WX 820 ; N OE ; B 30 -19 788 737 ;  
C 235 ; WX 299 ; N ordmasculine ; B 5 276 295 737 ;  
C 241 ; WX 729 ; N ae ; B 24 -14 704 546 ;  
C 245 ; WX 228 ; N dotlessi ; B 57 0 171 532 ;  
C 248 ; WX 228 ; N lslash ; B -15 0 243 718 ;  
C 249 ; WX 501 ; N oslash ; B 18 -29 483 560 ;  
C 250 ; WX 774 ; N oe ; B 28 -14 748 546 ;  
C 251 ; WX 501 ; N germandbls ; B 57 -14 475 731 ;  
C -1 ; WX 501 ; N Zcaron ; B 20 0 481 936 ;  
C -1 ; WX 456 ; N ccedilla ; B 28 -228 430 546 ;  
C -1 ; WX 456 ; N ydieresis ; B 8 -214 442 729 ;  
C -1 ; WX 456 ; N atilde ; B 24 -14 432 737 ;  
C -1 ; WX 228 ; N icircumflex ; B -30 0 259 750 ;  
C -1 ; WX 273 ; N threesuperior ; B 7 271 267 710 ;  
C -1 ; WX 456 ; N ecircumflex ; B 19 -14 433 750 ;  
C -1 ; WX 501 ; N thorn ; B 51 -208 474 718 ;  
C -1 ; WX 456 ; N egrave ; B 19 -14 433 750 ;  
C -1 ; WX 273 ; N twosuperior ; B 7 283 266 710 ;

C -1 ; WX 456 ; N eacute ; B 19 -14 433 750 ;  
C -1 ; WX 501 ; N otilde ; B 28 -14 474 737 ;  
C -1 ; WX 592 ; N Aacute ; B 16 0 576 936 ;  
C -1 ; WX 501 ; N ocircumflex ; B 28 -14 474 750 ;  
C -1 ; WX 456 ; N yacute ; B 8 -214 442 750 ;  
C -1 ; WX 501 ; N udieresis ; B 54 -14 447 729 ;  
C -1 ; WX 684 ; N threequarters ; B 13 -19 655 710 ;  
C -1 ; WX 456 ; N acircumflex ; B 24 -14 432 750 ;  
C -1 ; WX 592 ; N Eth ; B -4 0 562 718 ;  
C -1 ; WX 456 ; N edieresis ; B 19 -14 433 729 ;  
C -1 ; WX 501 ; N ugrave ; B 54 -14 447 750 ;  
C -1 ; WX 820 ; N trademark ; B 36 306 784 718 ;  
C -1 ; WX 501 ; N ograve ; B 28 -14 474 750 ;  
C -1 ; WX 456 ; N scaron ; B 25 -14 426 750 ;  
C -1 ; WX 228 ; N Idieresis ; B -17 0 246 915 ;  
C -1 ; WX 501 ; N uacute ; B 54 -14 447 750 ;  
C -1 ; WX 456 ; N agrave ; B 24 -14 432 750 ;  
C -1 ; WX 501 ; N ntilde ; B 53 0 448 737 ;  
C -1 ; WX 456 ; N aring ; B 24 -14 432 776 ;  
C -1 ; WX 410 ; N zcaron ; B 16 0 394 750 ;  
C -1 ; WX 228 ; N Icircumflex ; B -30 0 259 936 ;  
C -1 ; WX 592 ; N Ntilde ; B 57 0 536 923 ;  
C -1 ; WX 501 ; N ucircumflex ; B 54 -14 447 750 ;  
C -1 ; WX 547 ; N Ecircumflex ; B 62 0 509 936 ;  
C -1 ; WX 228 ; N Iacute ; B 52 0 270 936 ;  
C -1 ; WX 592 ; N Ccedilla ; B 36 -228 561 737 ;  
C -1 ; WX 638 ; N Odieresis ; B 36 -19 602 915 ;  
C -1 ; WX 547 ; N Scaron ; B 32 -19 516 936 ;  
C -1 ; WX 547 ; N Edieresis ; B 62 0 509 915 ;  
C -1 ; WX 228 ; N Igrave ; B -41 0 175 936 ;  
C -1 ; WX 456 ; N adieresis ; B 24 -14 432 729 ;  
C -1 ; WX 638 ; N Ograve ; B 36 -19 602 936 ;  
C -1 ; WX 547 ; N Egrave ; B 62 0 509 936 ;  
C -1 ; WX 547 ; N Ydieresis ; B 12 0 535 915 ;  
C -1 ; WX 604 ; N registered ; B -9 -19 613 737 ;  
C -1 ; WX 638 ; N Otilde ; B 36 -19 602 923 ;  
C -1 ; WX 684 ; N onequarter ; B 21 -19 628 710 ;  
C -1 ; WX 592 ; N Ugrave ; B 59 -19 534 936 ;  
C -1 ; WX 592 ; N Ucircumflex ; B 59 -19 534 936 ;  
C -1 ; WX 547 ; N Thorn ; B 62 0 514 718 ;  
C -1 ; WX 479 ; N divide ; B 33 -42 446 548 ;  
C -1 ; WX 592 ; N Atilde ; B 16 0 576 923 ;  
C -1 ; WX 592 ; N Uacute ; B 59 -19 534 936 ;  
C -1 ; WX 638 ; N Ocircumflex ; B 36 -19 602 936 ;  
C -1 ; WX 479 ; N logicalnot ; B 33 108 446 419 ;  
C -1 ; WX 592 ; N Aring ; B 16 0 576 962 ;  
C -1 ; WX 228 ; N idieresis ; B -17 0 246 729 ;  
C -1 ; WX 228 ; N iacute ; B 57 0 270 750 ;

C -1 ; WX 456 ; N acute ; B 24 -14 432 750 ;  
C -1 ; WX 479 ; N plusminus ; B 33 0 446 506 ;  
C -1 ; WX 479 ; N multiply ; B 33 1 447 505 ;  
C -1 ; WX 592 ; N Udieresis ; B 59 -19 534 915 ;  
C -1 ; WX 479 ; N minus ; B 33 197 446 309 ;  
C -1 ; WX 273 ; N onesuperior ; B 21 283 194 710 ;  
C -1 ; WX 547 ; N Eacute ; B 62 0 509 936 ;  
C -1 ; WX 592 ; N Acircumflex ; B 16 0 576 936 ;  
C -1 ; WX 604 ; N copyright ; B -9 -19 614 737 ;  
C -1 ; WX 592 ; N Agrave ; B 16 0 576 936 ;  
C -1 ; WX 501 ; N odieresis ; B 28 -14 474 729 ;  
C -1 ; WX 501 ; N oacute ; B 28 -14 474 750 ;  
C -1 ; WX 328 ; N degree ; B 47 426 281 712 ;  
C -1 ; WX 228 ; N igrave ; B -41 0 171 750 ;  
C -1 ; WX 501 ; N mu ; B 54 -207 447 532 ;  
C -1 ; WX 638 ; N Oacute ; B 36 -19 602 936 ;  
C -1 ; WX 501 ; N eth ; B 28 -14 474 737 ;  
C -1 ; WX 592 ; N Adieresis ; B 16 0 576 915 ;  
C -1 ; WX 547 ; N Yacute ; B 12 0 535 936 ;  
C -1 ; WX 230 ; N brokenbar ; B 69 -19 161 737 ;  
C -1 ; WX 684 ; N onehalf ; B 21 -19 651 710 ;  
EndCharMetrics  
StartKernData  
StartKernPairs 209

KPX A y -24  
KPX A w -24  
KPX A v -32  
KPX A u -24  
KPX A Y -89  
KPX A W -48  
KPX A V -65  
KPX A U -40  
KPX A T -73  
KPX A Q -32  
KPX A O -32  
KPX A G -40  
KPX A C -32

KPX B U -7  
KPX B A -24

KPX D period -24  
KPX D comma -24  
KPX D Y -56  
KPX D W -32  
KPX D V -32  
KPX D A -32



KPX F period -81  
KPX F comma -81  
KPX F a -15  
KPX F A -65

KPX J u -15  
KPX J period -15  
KPX J comma -15  
KPX J A -15

KPX K y -32  
KPX K u -24  
KPX K o -28  
KPX K e -11  
KPX K O -24

KPX L y -24  
KPX L quoteright -114  
KPX L quotedblright -114  
KPX L Y -97  
KPX L W -65  
KPX L V -89  
KPX L T -73

KPX O period -32  
KPX O comma -32  
KPX O Y -56  
KPX O X -40  
KPX O W -40  
KPX O V -40  
KPX O T -32  
KPX O A -40

KPX P period -97  
KPX P o -32  
KPX P e -24  
KPX P comma -97  
KPX P a -24  
KPX P A -81

KPX Q period 16  
KPX Q comma 16  
KPX Q U -7

KPX R Y -40  
KPX R W -32  
KPX R V -40

KPX R U -15  
KPX R T -15  
KPX R O -15

KPX T y -48  
KPX T w -48  
KPX T u -73  
KPX T semicolon -32  
KPX T r -65  
KPX T period -65  
KPX T o -65  
KPX T hyphen -97  
KPX T e -48  
KPX T comma -65  
KPX T colon -32  
KPX T a -65  
KPX T O -32  
KPX T A -73

KPX U period -24  
KPX U comma -24  
KPX U A -40

KPX V u -48  
KPX V semicolon -32  
KPX V period -97  
KPX V o -73  
KPX V hyphen -65  
KPX V e -40  
KPX V comma -97  
KPX V colon -32  
KPX V a -48  
KPX V O -40  
KPX V G -40  
KPX V A -65

KPX W y -15  
KPX W u -36  
KPX W semicolon -7  
KPX W period -65  
KPX W o -48  
KPX W hyphen -32  
KPX W e -28  
KPX W comma -65  
KPX W colon -7  
KPX W a -32  
KPX W O -15  
KPX W A -48

KPX Y u -81  
KPX Y semicolon -40  
KPX Y period -81  
KPX Y o -81  
KPX Y e -65  
KPX Y comma -81  
KPX Y colon -40  
KPX Y a -73  
KPX Y O -56  
KPX Y A -89

KPX a y -15  
KPX a w -11  
KPX a v -11  
KPX a g -7

KPX b y -15  
KPX b v -15  
KPX b u -15  
KPX b l -7

KPX c y -7  
KPX c l -15  
KPX c k -15  
KPX c h -7

KPX colon space -32

KPX comma space -32  
KPX comma quoteright -97  
KPX comma quotedblright -97

KPX d y -11  
KPX d w -11  
KPX d v -11  
KPX d d -7

KPX e y -11  
KPX e x -11  
KPX e w -11  
KPX e v -11  
KPX e period 16  
KPX e comma 8

KPX f quoteright 25  
KPX f quotedblright 25  
KPX f period -7

KPX f o -15  
KPX f e -7  
KPX f comma -7

KPX g g -7  
KPX g e 8

KPX h y -15

KPX k o -11

KPX l y -11  
KPX l w -11

KPX m y -24  
KPX m u -15

KPX n y -15  
KPX n v -32  
KPX n u -7

KPX o y -15  
KPX o x -24  
KPX o w -11  
KPX o v -15

KPX p y -11

KPX period space -32  
KPX period quoteright -97  
KPX period quotedblright -97

KPX quotedblright space -65

KPX quoteleft quoteleft -37

KPX quoteright v -15  
KPX quoteright space -65  
KPX quoteright s -48  
KPX quoteright r -32  
KPX quoteright quoteright -37  
KPX quoteright l -15  
KPX quoteright d -65

KPX r y 8  
KPX r v 8  
KPX r t 16  
KPX r s -11

KPX r q -15  
KPX r period -48  
KPX r o -15  
KPX r hyphen -15  
KPX r g -11  
KPX r d -15  
KPX r comma -48  
KPX r c -15

KPX s w -11

KPX semicolon space -32

KPX space quoteleft -48  
KPX space quotedblleft -65  
KPX space Y -97  
KPX space W -65  
KPX space V -65  
KPX space T -81

KPX v period -65  
KPX v o -24  
KPX v comma -65  
KPX v a -15

KPX w period -32  
KPX w o -15  
KPX w comma -32

KPX x e -7

KPX y period -65  
KPX y o -20  
KPX y e -7  
KPX y comma -65  
KPX y a -24

KPX z e 8  
EndKernPairs  
EndKernData  
StartComposites 58

CC Acute 2 ; PCC A 0 0 ; PCC acute 160 186 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 160 186 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 160 186 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 186 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 160 186 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 160 186 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 137 186 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 137 186 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 137 186 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 137 186 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 186 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -22 186 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -22 186 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -22 186 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 160 186 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 183 186 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 183 186 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 183 186 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 183 186 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 183 186 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 137 186 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 160 186 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 160 186 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 160 186 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 160 186 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 137 186 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 137 186 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 114 186 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 92 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 108 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -22 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -22 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -22 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 114 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 114 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 114 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 114 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 114 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 114 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 92 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 114 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 114 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 114 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 114 0 ;

CC yacute 2 ; PCC y 0 0 ; PCC acute 92 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 92 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 69 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Mon Mar 4 13:49:44 1991  
Comment UniqueID 34373  
Comment VMusage 6550 39938  
FontName AvantGarde-DemiOblique  
FullName ITC Avant Garde Gothic Demi Oblique  
FamilyName ITC Avant Garde Gothic  
Weight Demi  
ItalicAngle -10.5  
IsFixedPitch false  
FontBBox -123 -251 1256 1021  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.007  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved. ITC Avant  
Garde Gothic is a registered trademark of International Typeface Corporation.  
EncodingScheme AdobeStandardEncoding  
CapHeight 740  
XHeight 555  
Ascender 740  
Descender -185  
StartCharMetrics 228  
C 32 ; WX 280 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 280 ; N exclam ; B 73 0 343 740 ;  
C 34 ; WX 360 ; N quotedbl ; B 127 444 478 740 ;  
C 35 ; WX 560 ; N numbersign ; B 66 0 618 700 ;  
C 36 ; WX 560 ; N dollar ; B 99 -86 582 857 ;  
C 37 ; WX 860 ; N percent ; B 139 -15 856 755 ;  
C 38 ; WX 680 ; N ampersand ; B 71 -15 742 755 ;  
C 39 ; WX 280 ; N quoteright ; B 159 466 342 740 ;  
C 40 ; WX 380 ; N parenleft ; B 120 -157 490 754 ;  
C 41 ; WX 380 ; N parenright ; B 8 -157 378 754 ;  
C 42 ; WX 440 ; N asterisk ; B 174 457 492 755 ;  
C 43 ; WX 600 ; N plus ; B 84 0 610 506 ;  
C 44 ; WX 280 ; N comma ; B 48 -141 231 133 ;  
C 45 ; WX 420 ; N hyphen ; B 114 230 413 348 ;  
C 46 ; WX 280 ; N period ; B 73 0 231 133 ;  
C 47 ; WX 460 ; N slash ; B -13 -100 591 740 ;  
C 48 ; WX 560 ; N zero ; B 70 -15 628 755 ;  
C 49 ; WX 560 ; N one ; B 230 0 500 740 ;  
C 50 ; WX 560 ; N two ; B 44 0 622 755 ;  
C 51 ; WX 560 ; N three ; B 67 -15 585 755 ;

C 52 ; WX 560 ; N four ; B 36 0 604 740 ;  
C 53 ; WX 560 ; N five ; B 64 -15 600 740 ;  
C 54 ; WX 560 ; N six ; B 64 -15 587 739 ;  
C 55 ; WX 560 ; N seven ; B 83 0 635 740 ;  
C 56 ; WX 560 ; N eight ; B 71 -15 590 755 ;  
C 57 ; WX 560 ; N nine ; B 110 0 633 754 ;  
C 58 ; WX 280 ; N colon ; B 73 0 309 555 ;  
C 59 ; WX 280 ; N semicolon ; B 48 -141 309 555 ;  
C 60 ; WX 600 ; N less ; B 84 -8 649 514 ;  
C 61 ; WX 600 ; N equal ; B 63 81 631 425 ;  
C 62 ; WX 600 ; N greater ; B 45 -8 610 514 ;  
C 63 ; WX 560 ; N question ; B 135 0 593 755 ;  
C 64 ; WX 740 ; N at ; B 109 -12 832 712 ;  
C 65 ; WX 740 ; N A ; B 7 0 732 740 ;  
C 66 ; WX 580 ; N B ; B 70 0 610 740 ;  
C 67 ; WX 780 ; N C ; B 97 -15 864 755 ;  
C 68 ; WX 700 ; N D ; B 63 0 732 740 ;  
C 69 ; WX 520 ; N E ; B 61 0 596 740 ;  
C 70 ; WX 480 ; N F ; B 61 0 575 740 ;  
C 71 ; WX 840 ; N G ; B 89 -15 887 755 ;  
C 72 ; WX 680 ; N H ; B 71 0 747 740 ;  
C 73 ; WX 280 ; N I ; B 72 0 346 740 ;  
C 74 ; WX 480 ; N J ; B 34 -15 546 740 ;  
C 75 ; WX 620 ; N K ; B 89 0 757 740 ;  
C 76 ; WX 440 ; N L ; B 72 0 459 740 ;  
C 77 ; WX 900 ; N M ; B 63 0 974 740 ;  
C 78 ; WX 740 ; N N ; B 70 0 808 740 ;  
C 79 ; WX 840 ; N O ; B 95 -15 882 755 ;  
C 80 ; WX 560 ; N P ; B 72 0 645 740 ;  
C 81 ; WX 840 ; N Q ; B 94 -15 882 755 ;  
C 82 ; WX 580 ; N R ; B 64 0 656 740 ;  
C 83 ; WX 520 ; N S ; B 49 -15 578 755 ;  
C 84 ; WX 420 ; N T ; B 119 0 555 740 ;  
C 85 ; WX 640 ; N U ; B 97 -15 722 740 ;  
C 86 ; WX 700 ; N V ; B 145 0 832 740 ;  
C 87 ; WX 900 ; N W ; B 144 0 1036 740 ;  
C 88 ; WX 680 ; N X ; B 4 0 813 740 ;  
C 89 ; WX 620 ; N Y ; B 135 0 759 740 ;  
C 90 ; WX 500 ; N Z ; B 19 0 599 740 ;  
C 91 ; WX 320 ; N bracketleft ; B 89 -157 424 754 ;  
C 92 ; WX 640 ; N backslash ; B 233 -100 525 740 ;  
C 93 ; WX 320 ; N bracketright ; B 7 -157 342 754 ;  
C 94 ; WX 600 ; N asciicircum ; B 142 375 596 740 ;  
C 95 ; WX 500 ; N underscore ; B -23 -125 486 -75 ;  
C 96 ; WX 280 ; N quoteleft ; B 158 466 341 740 ;  
C 97 ; WX 660 ; N a ; B 73 -18 716 574 ;  
C 98 ; WX 660 ; N b ; B 47 -18 689 740 ;  
C 99 ; WX 640 ; N c ; B 84 -18 679 574 ;



C 100 ; WX 660 ; N d ; B 80 -18 755 740 ;  
C 101 ; WX 640 ; N e ; B 77 -18 667 577 ;  
C 102 ; WX 280 ; N f ; B 62 0 420 755 ; L i fi ; L l fl ;  
C 103 ; WX 660 ; N g ; B 33 -226 726 574 ;  
C 104 ; WX 600 ; N h ; B 54 0 614 740 ;  
C 105 ; WX 240 ; N i ; B 53 0 323 740 ;  
C 106 ; WX 260 ; N j ; B -18 -185 342 740 ;  
C 107 ; WX 580 ; N k ; B 80 0 648 740 ;  
C 108 ; WX 240 ; N l ; B 54 0 324 740 ;  
C 109 ; WX 940 ; N m ; B 54 0 954 574 ;  
C 110 ; WX 600 ; N n ; B 54 0 613 574 ;  
C 111 ; WX 640 ; N o ; B 71 -18 672 574 ;  
C 112 ; WX 660 ; N p ; B 13 -185 686 574 ;  
C 113 ; WX 660 ; N q ; B 78 -185 716 574 ;  
C 114 ; WX 320 ; N r ; B 63 0 423 574 ;  
C 115 ; WX 440 ; N s ; B 49 -18 483 574 ;  
C 116 ; WX 300 ; N t ; B 86 0 402 740 ;  
C 117 ; WX 600 ; N u ; B 87 -18 647 555 ;  
C 118 ; WX 560 ; N v ; B 106 0 659 555 ;  
C 119 ; WX 800 ; N w ; B 114 0 892 555 ;  
C 120 ; WX 560 ; N x ; B 3 0 632 555 ;  
C 121 ; WX 580 ; N y ; B 75 -185 674 555 ;  
C 122 ; WX 460 ; N z ; B 20 0 528 555 ;  
C 123 ; WX 340 ; N braceleft ; B 40 -191 455 747 ;  
C 124 ; WX 600 ; N bar ; B 214 -100 503 740 ;  
C 125 ; WX 340 ; N braceright ; B -12 -191 405 747 ;  
C 126 ; WX 600 ; N asciitilde ; B 114 160 579 347 ;  
C 161 ; WX 280 ; N exclamdown ; B 40 -185 310 555 ;  
C 162 ; WX 560 ; N cent ; B 110 39 599 715 ;  
C 163 ; WX 560 ; N sterling ; B 38 0 615 755 ;  
C 164 ; WX 160 ; N fraction ; B -123 0 419 740 ;  
C 165 ; WX 560 ; N yen ; B 83 0 707 740 ;  
C 166 ; WX 560 ; N florin ; B -27 -151 664 824 ;  
C 167 ; WX 560 ; N section ; B 65 -158 602 755 ;  
C 168 ; WX 560 ; N currency ; B 53 69 628 577 ;  
C 169 ; WX 220 ; N quotesingle ; B 152 444 314 740 ;  
C 170 ; WX 480 ; N quotedblleft ; B 156 466 546 740 ;  
C 171 ; WX 460 ; N guillemotleft ; B 105 108 487 469 ;  
C 172 ; WX 240 ; N guilsinglleft ; B 94 108 277 469 ;  
C 173 ; WX 240 ; N guilsinglright ; B 70 108 253 469 ;  
C 174 ; WX 520 ; N fi ; B 72 0 598 755 ;  
C 175 ; WX 520 ; N fl ; B 72 0 598 755 ;  
C 177 ; WX 500 ; N endash ; B 78 230 529 348 ;  
C 178 ; WX 560 ; N dagger ; B 133 -142 612 740 ;  
C 179 ; WX 560 ; N daggerdbl ; B 63 -142 618 740 ;  
C 180 ; WX 280 ; N periodcentered ; B 108 187 265 320 ;  
C 182 ; WX 600 ; N paragraph ; B 90 -103 744 740 ;  
C 183 ; WX 600 ; N bullet ; B 215 222 526 532 ;

C 184 ; WX 280 ; N quotesinglbase ; B 47 -141 230 133 ;  
C 185 ; WX 480 ; N quotedblbase ; B 45 -141 435 133 ;  
C 186 ; WX 480 ; N quotedblright ; B 157 466 547 740 ;  
C 187 ; WX 460 ; N guillemotright ; B 81 108 463 469 ;  
C 188 ; WX 1000 ; N ellipsis ; B 100 0 924 133 ;  
C 189 ; WX 1280 ; N perthousand ; B 139 -15 1256 755 ;  
C 191 ; WX 560 ; N questiondown ; B 69 -200 527 555 ;  
C 193 ; WX 420 ; N grave ; B 189 624 462 851 ;  
C 194 ; WX 420 ; N acute ; B 224 624 508 849 ;  
C 195 ; WX 540 ; N circumflex ; B 189 636 588 774 ;  
C 196 ; WX 480 ; N tilde ; B 178 636 564 767 ;  
C 197 ; WX 420 ; N macron ; B 192 648 490 759 ;  
C 198 ; WX 480 ; N breve ; B 185 633 582 770 ;  
C 199 ; WX 280 ; N dotaccent ; B 192 636 350 769 ;  
C 200 ; WX 500 ; N dieresis ; B 196 636 565 769 ;  
C 202 ; WX 360 ; N ring ; B 206 619 424 834 ;  
C 203 ; WX 340 ; N cedilla ; B 67 -251 272 6 ;  
C 205 ; WX 700 ; N hungarumlaut ; B 258 610 754 862 ;  
C 206 ; WX 340 ; N ogonek ; B 59 -195 243 9 ;  
C 207 ; WX 540 ; N caron ; B 214 636 613 774 ;  
C 208 ; WX 1000 ; N emdash ; B 78 230 1029 348 ;  
C 225 ; WX 900 ; N AE ; B -5 0 961 740 ;  
C 227 ; WX 360 ; N ordfeminine ; B 127 438 472 755 ;  
C 232 ; WX 480 ; N Lslash ; B 68 0 484 740 ;  
C 233 ; WX 840 ; N Oslash ; B 94 -71 891 814 ;  
C 234 ; WX 1060 ; N OE ; B 98 -15 1144 755 ;  
C 235 ; WX 360 ; N ordmasculine ; B 131 438 451 755 ;  
C 241 ; WX 1080 ; N ae ; B 75 -18 1105 574 ;  
C 245 ; WX 240 ; N dotlessi ; B 53 0 289 555 ;  
C 248 ; WX 320 ; N lslash ; B 74 0 404 740 ;  
C 249 ; WX 660 ; N oslash ; B 81 -50 685 608 ;  
C 250 ; WX 1080 ; N oe ; B 76 -18 1108 574 ;  
C 251 ; WX 600 ; N germandbls ; B 51 -18 629 755 ;  
C -1 ; WX 640 ; N ecircumflex ; B 77 -18 667 774 ;  
C -1 ; WX 640 ; N edieresis ; B 77 -18 667 769 ;  
C -1 ; WX 660 ; N aacute ; B 73 -18 716 849 ;  
C -1 ; WX 740 ; N registered ; B 50 -12 827 752 ;  
C -1 ; WX 240 ; N icircumflex ; B 39 0 438 774 ;  
C -1 ; WX 600 ; N udieresis ; B 87 -18 647 769 ;  
C -1 ; WX 640 ; N ograve ; B 71 -18 672 851 ;  
C -1 ; WX 600 ; N uacute ; B 87 -18 647 849 ;  
C -1 ; WX 600 ; N ucircumflex ; B 87 -18 647 774 ;  
C -1 ; WX 740 ; N Aacute ; B 7 0 732 1019 ;  
C -1 ; WX 240 ; N igrave ; B 53 0 347 851 ;  
C -1 ; WX 280 ; N Icircumflex ; B 72 0 489 944 ;  
C -1 ; WX 640 ; N ccedilla ; B 83 -251 679 574 ;  
C -1 ; WX 660 ; N adieresis ; B 73 -18 716 769 ;  
C -1 ; WX 520 ; N Ecircumflex ; B 61 0 609 944 ;

C -1 ; WX 440 ; N scaron ; B 49 -18 563 774 ;  
C -1 ; WX 660 ; N thorn ; B 13 -185 686 740 ;  
C -1 ; WX 1000 ; N trademark ; B 131 296 958 740 ;  
C -1 ; WX 640 ; N egrave ; B 77 -18 667 851 ;  
C -1 ; WX 336 ; N threesuperior ; B 87 287 413 749 ;  
C -1 ; WX 460 ; N zcaron ; B 20 0 598 774 ;  
C -1 ; WX 660 ; N tilde ; B 73 -18 716 767 ;  
C -1 ; WX 660 ; N aring ; B 73 -18 716 834 ;  
C -1 ; WX 640 ; N ocircumflex ; B 71 -18 672 774 ;  
C -1 ; WX 520 ; N Edieresis ; B 61 0 606 939 ;  
C -1 ; WX 840 ; N threequarters ; B 97 0 836 749 ;  
C -1 ; WX 580 ; N ydieresis ; B 75 -185 674 769 ;  
C -1 ; WX 580 ; N yacute ; B 75 -185 674 849 ;  
C -1 ; WX 240 ; N iacute ; B 53 0 443 849 ;  
C -1 ; WX 740 ; N Acircumflex ; B 7 0 732 944 ;  
C -1 ; WX 640 ; N Uacute ; B 97 -15 722 1019 ;  
C -1 ; WX 640 ; N eacute ; B 77 -18 667 849 ;  
C -1 ; WX 840 ; N Ograve ; B 95 -15 882 1021 ;  
C -1 ; WX 660 ; N agrave ; B 73 -18 716 851 ;  
C -1 ; WX 640 ; N Udieresis ; B 97 -15 722 939 ;  
C -1 ; WX 660 ; N acircumflex ; B 73 -18 716 774 ;  
C -1 ; WX 280 ; N Igrave ; B 72 0 398 1021 ;  
C -1 ; WX 336 ; N twosuperior ; B 73 296 436 749 ;  
C -1 ; WX 640 ; N Ugrave ; B 97 -15 722 1021 ;  
C -1 ; WX 840 ; N onequarter ; B 187 0 779 740 ;  
C -1 ; WX 640 ; N Ucircumflex ; B 97 -15 722 944 ;  
C -1 ; WX 520 ; N Scaron ; B 49 -15 635 944 ;  
C -1 ; WX 280 ; N Idieresis ; B 72 0 486 939 ;  
C -1 ; WX 240 ; N idieresis ; B 53 0 435 769 ;  
C -1 ; WX 520 ; N Egrave ; B 61 0 596 1021 ;  
C -1 ; WX 840 ; N Oacute ; B 95 -15 882 1019 ;  
C -1 ; WX 600 ; N divide ; B 84 -20 610 526 ;  
C -1 ; WX 740 ; N Atilde ; B 7 0 732 937 ;  
C -1 ; WX 740 ; N Aring ; B 7 0 732 969 ;  
C -1 ; WX 840 ; N Odieresis ; B 95 -15 882 939 ;  
C -1 ; WX 740 ; N Adieresis ; B 7 0 732 939 ;  
C -1 ; WX 740 ; N Ntilde ; B 70 0 808 937 ;  
C -1 ; WX 500 ; N Zcaron ; B 19 0 650 944 ;  
C -1 ; WX 560 ; N Thorn ; B 72 0 619 740 ;  
C -1 ; WX 280 ; N Iacute ; B 72 0 494 1019 ;  
C -1 ; WX 600 ; N plusminus ; B 37 -62 626 556 ;  
C -1 ; WX 600 ; N multiply ; B 76 12 617 494 ;  
C -1 ; WX 520 ; N Eacute ; B 61 0 596 1019 ;  
C -1 ; WX 620 ; N Ydieresis ; B 135 0 759 939 ;  
C -1 ; WX 336 ; N onesuperior ; B 182 296 360 740 ;  
C -1 ; WX 600 ; N ugrave ; B 87 -18 647 851 ;  
C -1 ; WX 600 ; N logicalnot ; B 105 108 631 425 ;  
C -1 ; WX 600 ; N ntilde ; B 54 0 624 767 ;

C -1 ; WX 840 ; N Otilde ; B 95 -15 882 937 ;  
C -1 ; WX 640 ; N otilde ; B 71 -18 672 767 ;  
C -1 ; WX 780 ; N Ccedilla ; B 97 -251 864 755 ;  
C -1 ; WX 740 ; N Agrave ; B 7 0 732 1021 ;  
C -1 ; WX 840 ; N onehalf ; B 157 0 830 740 ;  
C -1 ; WX 742 ; N Eth ; B 83 0 766 740 ;  
C -1 ; WX 400 ; N degree ; B 160 426 451 712 ;  
C -1 ; WX 620 ; N Yacute ; B 135 0 759 1019 ;  
C -1 ; WX 840 ; N Ocircumflex ; B 95 -15 882 944 ;  
C -1 ; WX 640 ; N oacute ; B 71 -18 672 849 ;  
C -1 ; WX 576 ; N mu ; B 3 -187 642 555 ;  
C -1 ; WX 600 ; N minus ; B 84 193 610 313 ;  
C -1 ; WX 640 ; N eth ; B 73 -18 699 754 ;  
C -1 ; WX 640 ; N odieresis ; B 71 -18 672 769 ;  
C -1 ; WX 740 ; N copyright ; B 50 -12 827 752 ;  
C -1 ; WX 600 ; N brokenbar ; B 214 -100 503 740 ;  
EndCharMetrics  
StartKernData  
StartKernPairs 218

KPX A y -50  
KPX A w -65  
KPX A v -70  
KPX A u -20  
KPX A quoteright -90  
KPX A Y -80  
KPX A W -60  
KPX A V -102  
KPX A U -40  
KPX A T -25  
KPX A Q -50  
KPX A O -50  
KPX A G -40  
KPX A C -40

KPX B A -10

KPX C A -40

KPX D period -20  
KPX D comma -20  
KPX D Y -45  
KPX D W -25  
KPX D V -50  
KPX D A -50

KPX F period -129

KPX F e -20

KPX F comma -162

KPX F a -20

KPX F A -75

KPX G period -20

KPX G comma -20

KPX G Y -15

KPX J period -15

KPX J a -20

KPX J A -30

KPX K y -20

KPX K u -15

KPX K o -45

KPX K e -40

KPX K O -30

KPX L y -23

KPX L quoteright -30

KPX L quotedblright -30

KPX L Y -80

KPX L W -55

KPX L V -85

KPX L T -46

KPX O period -30

KPX O comma -30

KPX O Y -30

KPX O X -30

KPX O W -20

KPX O V -45

KPX O T -15

KPX O A -60

KPX P period -200

KPX P o -20

KPX P e -20

KPX P comma -220

KPX P a -20

KPX P A -100

KPX Q comma 20

KPX R W 25

KPX R V -10

KPX R U 25

KPX R T 40

KPX R O 25

KPX S comma 20

KPX T y -10

KPX T w -55

KPX T u -46

KPX T semicolon -29

KPX T r -30

KPX T period -91

KPX T o -49

KPX T hyphen -75

KPX T e -49

KPX T comma -82

KPX T colon -15

KPX T a -70

KPX T O -15

KPX T A -25

KPX U period -20

KPX U comma -20

KPX U A -40

KPX V u -55

KPX V semicolon -33

KPX V period -145

KPX V o -101

KPX V i -15

KPX V hyphen -75

KPX V e -101

KPX V comma -145

KPX V colon -18

KPX V a -95

KPX V O -45

KPX V G -20

KPX V A -102

KPX W y -15

KPX W u -30

KPX W semicolon -33

KPX W period -106

KPX W o -46

KPX W i -10

KPX W hyphen -35

KPX W e -47

KPX W comma -106

KPX W colon -15

KPX W a -50

KPX W O -20  
KPX W A -58

KPX Y u -52  
KPX Y semicolon -23  
KPX Y period -145  
KPX Y o -89  
KPX Y hyphen -100  
KPX Y e -89  
KPX Y comma -145  
KPX Y colon -10  
KPX Y a -93  
KPX Y O -30  
KPX Y A -80

KPX a t 5  
KPX a p 20  
KPX a b 5

KPX b y -20  
KPX b v -20

KPX c y -20  
KPX c l -15  
KPX c k -15

KPX comma space -50  
KPX comma quoteright -70  
KPX comma quotedblright -70

KPX e y -20  
KPX e x -20  
KPX e w -20  
KPX e v -20

KPX f period -40  
KPX f o -20  
KPX f l -15  
KPX f i -15  
KPX f f -20  
KPX f dotlessi -15  
KPX f comma -40  
KPX f a -15

KPX g i 25  
KPX g a 15

KPX h y -30

KPX k y -5  
KPX k o -30  
KPX k e -40

KPX m y -20  
KPX m u -20

KPX n y -15  
KPX n v -30

KPX o y -20  
KPX o x -30  
KPX o w -20  
KPX o v -30

KPX p y -20

KPX period space -50  
KPX period quoteright -70  
KPX period quotedblright -70

KPX quotedblleft A -50

KPX quotedblright space -50

KPX quoteleft quoteleft -80  
KPX quoteleft A -50

KPX quoteright v -10  
KPX quoteright t 10  
KPX quoteright space -50  
KPX quoteright s -15  
KPX quoteright r -20  
KPX quoteright quoteright -80  
KPX quoteright d -50

KPX r y 40  
KPX r v 40  
KPX r u 20  
KPX r t 20  
KPX r s 20  
KPX r q -8  
KPX r period -73  
KPX r p 20  
KPX r o -15  
KPX r n 21  
KPX r m 15



KPX r l 20  
KPX r k 5  
KPX r i 20  
KPX r hyphen -60  
KPX r g 1  
KPX r e -4  
KPX r d -6  
KPX r comma -75  
KPX r c -7

KPX s period 20  
KPX s comma 20

KPX space quoteleft -50  
KPX space quotedbleft -50  
KPX space Y -60  
KPX space W -25  
KPX space V -80  
KPX space T -25  
KPX space A -20

KPX v period -90  
KPX v o -20  
KPX v e -20  
KPX v comma -90  
KPX v a -30

KPX w period -90  
KPX w o -30  
KPX w e -20  
KPX w comma -90  
KPX w a -30

KPX x e -20

KPX y period -100  
KPX y o -30  
KPX y e -20  
KPX y comma -100  
KPX y c -35  
KPX y a -30

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 192 170 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 132 170 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 152 170 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave 192 170 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 215 135 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 162 170 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 82 170 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 22 170 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 42 170 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 82 170 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -13 170 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -98 170 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -78 170 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -63 170 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 162 170 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 242 170 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 182 170 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 202 170 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 242 170 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 212 170 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 22 170 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 177 170 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 82 170 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 102 170 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 107 170 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 167 170 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 92 170 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 37 170 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 60 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 150 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 90 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 110 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 50 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 70 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 110 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -65 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -150 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -130 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -115 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 60 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 50 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 70 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 110 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 80 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron -50 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 125 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 30 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 50 0 ;

CC ugrave 2 ; PCC u 0 0 ; PCC grave 55 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 115 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 40 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron -15 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Mon Mar 4 13:37:31 1991  
Comment UniqueID 34364  
Comment VMusage 24225 31117  
FontName AvantGarde-Book  
FullName ITC Avant Garde Gothic Book  
FamilyName ITC Avant Garde Gothic  
Weight Book  
ItalicAngle 0  
IsFixedPitch false  
FontBBox -113 -222 1148 955  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.006  
Notice Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved. ITC Avant  
Garde Gothic is a registered trademark of International Typeface Corporation.  
EncodingScheme AdobeStandardEncoding  
CapHeight 740  
XHeight 547  
Ascender 740  
Descender -192  
StartCharMetrics 228  
C 32 ; WX 277 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 295 ; N exclam ; B 111 0 185 740 ;  
C 34 ; WX 309 ; N quotedbl ; B 36 444 273 740 ;  
C 35 ; WX 554 ; N numbersign ; B 33 0 521 740 ;  
C 36 ; WX 554 ; N dollar ; B 70 -70 485 811 ;  
C 37 ; WX 775 ; N percent ; B 21 -13 753 751 ;  
C 38 ; WX 757 ; N ampersand ; B 56 -12 736 753 ;  
C 39 ; WX 351 ; N quoteright ; B 94 546 256 740 ;  
C 40 ; WX 369 ; N parenleft ; B 47 -205 355 757 ;  
C 41 ; WX 369 ; N parenright ; B 14 -205 322 757 ;  
C 42 ; WX 425 ; N asterisk ; B 58 446 367 740 ;  
C 43 ; WX 606 ; N plus ; B 51 0 555 506 ;  
C 44 ; WX 277 ; N comma ; B 14 -67 176 126 ;  
C 45 ; WX 332 ; N hyphen ; B 30 248 302 315 ;  
C 46 ; WX 277 ; N period ; B 102 0 176 126 ;  
C 47 ; WX 437 ; N slash ; B 44 -100 403 740 ;  
C 48 ; WX 554 ; N zero ; B 29 -13 525 753 ;  
C 49 ; WX 554 ; N one ; B 135 0 336 740 ;  
C 50 ; WX 554 ; N two ; B 40 0 514 753 ;

C 51 ; WX 554 ; N three ; B 34 -13 506 753 ;  
C 52 ; WX 554 ; N four ; B 14 0 528 740 ;  
C 53 ; WX 554 ; N five ; B 26 -13 530 740 ;  
C 54 ; WX 554 ; N six ; B 24 -13 530 739 ;  
C 55 ; WX 554 ; N seven ; B 63 0 491 740 ;  
C 56 ; WX 554 ; N eight ; B 41 -13 513 753 ;  
C 57 ; WX 554 ; N nine ; B 24 0 530 752 ;  
C 58 ; WX 277 ; N colon ; B 102 0 176 548 ;  
C 59 ; WX 277 ; N semicolon ; B 14 -67 176 548 ;  
C 60 ; WX 606 ; N less ; B 46 -8 554 514 ;  
C 61 ; WX 606 ; N equal ; B 51 118 555 388 ;  
C 62 ; WX 606 ; N greater ; B 52 -8 560 514 ;  
C 63 ; WX 591 ; N question ; B 64 0 526 752 ;  
C 64 ; WX 867 ; N at ; B 65 -13 803 753 ;  
C 65 ; WX 740 ; N A ; B 12 0 729 740 ;  
C 66 ; WX 574 ; N B ; B 74 0 544 740 ;  
C 67 ; WX 813 ; N C ; B 43 -13 771 752 ;  
C 68 ; WX 744 ; N D ; B 74 0 699 740 ;  
C 69 ; WX 536 ; N E ; B 70 0 475 740 ;  
C 70 ; WX 485 ; N F ; B 70 0 444 740 ;  
C 71 ; WX 872 ; N G ; B 40 -13 828 753 ;  
C 72 ; WX 683 ; N H ; B 76 0 607 740 ;  
C 73 ; WX 226 ; N I ; B 76 0 150 740 ;  
C 74 ; WX 482 ; N J ; B 6 -13 402 740 ;  
C 75 ; WX 591 ; N K ; B 81 0 591 740 ;  
C 76 ; WX 462 ; N L ; B 82 0 462 740 ;  
C 77 ; WX 919 ; N M ; B 76 0 843 740 ;  
C 78 ; WX 740 ; N N ; B 75 0 664 740 ;  
C 79 ; WX 869 ; N O ; B 43 -13 826 753 ;  
C 80 ; WX 592 ; N P ; B 75 0 564 740 ;  
C 81 ; WX 871 ; N Q ; B 40 -13 837 753 ;  
C 82 ; WX 607 ; N R ; B 70 0 572 740 ;  
C 83 ; WX 498 ; N S ; B 22 -13 473 753 ;  
C 84 ; WX 426 ; N T ; B 6 0 419 740 ;  
C 85 ; WX 655 ; N U ; B 75 -13 579 740 ;  
C 86 ; WX 702 ; N V ; B 8 0 693 740 ;  
C 87 ; WX 960 ; N W ; B 11 0 950 740 ;  
C 88 ; WX 609 ; N X ; B 8 0 602 740 ;  
C 89 ; WX 592 ; N Y ; B 1 0 592 740 ;  
C 90 ; WX 480 ; N Z ; B 12 0 470 740 ;  
C 91 ; WX 351 ; N bracketleft ; B 133 -179 337 753 ;  
C 92 ; WX 605 ; N backslash ; B 118 -100 477 740 ;  
C 93 ; WX 351 ; N bracketright ; B 14 -179 218 753 ;  
C 94 ; WX 606 ; N asciicircum ; B 53 307 553 740 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 351 ; N quoteleft ; B 95 546 257 740 ;  
C 97 ; WX 683 ; N a ; B 42 -13 621 561 ;  
C 98 ; WX 682 ; N b ; B 68 -13 647 740 ;

C 99 ; WX 647 ; N c ; B 41 -13 607 561 ;  
C 100 ; WX 685 ; N d ; B 39 -13 618 740 ;  
C 101 ; WX 650 ; N e ; B 38 -13 608 561 ;  
C 102 ; WX 314 ; N f ; B 19 0 314 753 ; L i fi ; L l fl ;  
C 103 ; WX 673 ; N g ; B 37 -215 606 561 ;  
C 104 ; WX 610 ; N h ; B 62 0 543 740 ;  
C 105 ; WX 200 ; N i ; B 65 0 135 740 ;  
C 106 ; WX 203 ; N j ; B -44 -192 137 740 ;  
C 107 ; WX 502 ; N k ; B 70 0 498 740 ;  
C 108 ; WX 200 ; N l ; B 65 0 135 740 ;  
C 109 ; WX 938 ; N m ; B 66 0 872 561 ;  
C 110 ; WX 610 ; N n ; B 65 0 546 561 ;  
C 111 ; WX 655 ; N o ; B 42 -13 614 561 ;  
C 112 ; WX 682 ; N p ; B 64 -192 643 561 ;  
C 113 ; WX 682 ; N q ; B 37 -192 616 561 ;  
C 114 ; WX 301 ; N r ; B 65 0 291 561 ;  
C 115 ; WX 388 ; N s ; B 24 -13 364 561 ;  
C 116 ; WX 339 ; N t ; B 14 0 330 740 ;  
C 117 ; WX 608 ; N u ; B 62 -13 541 547 ;  
C 118 ; WX 554 ; N v ; B 7 0 546 547 ;  
C 119 ; WX 831 ; N w ; B 13 0 820 547 ;  
C 120 ; WX 480 ; N x ; B 12 0 468 547 ;  
C 121 ; WX 536 ; N y ; B 15 -192 523 547 ;  
C 122 ; WX 425 ; N z ; B 10 0 415 547 ;  
C 123 ; WX 351 ; N braceleft ; B 70 -189 331 740 ;  
C 124 ; WX 672 ; N bar ; B 299 -100 373 740 ;  
C 125 ; WX 351 ; N braceright ; B 20 -189 281 740 ;  
C 126 ; WX 606 ; N asciitilde ; B 72 179 534 319 ;  
C 161 ; WX 295 ; N exclamdown ; B 110 -192 184 548 ;  
C 162 ; WX 554 ; N cent ; B 48 62 510 707 ;  
C 163 ; WX 554 ; N sterling ; B 4 0 552 753 ;  
C 164 ; WX 166 ; N fraction ; B -113 0 280 740 ;  
C 165 ; WX 554 ; N yen ; B 4 0 550 740 ;  
C 166 ; WX 554 ; N florin ; B -12 -153 518 818 ;  
C 167 ; WX 615 ; N section ; B 85 -141 529 753 ;  
C 168 ; WX 554 ; N currency ; B 8 42 546 580 ;  
C 169 ; WX 198 ; N quotesingle ; B 59 444 140 740 ;  
C 170 ; WX 502 ; N quotedblleft ; B 97 546 406 740 ;  
C 171 ; WX 425 ; N guillemotleft ; B 40 81 386 481 ;  
C 172 ; WX 251 ; N guilsinglleft ; B 40 81 212 481 ;  
C 173 ; WX 251 ; N guilsinglright ; B 39 81 211 481 ;  
C 174 ; WX 487 ; N fi ; B 19 0 422 753 ;  
C 175 ; WX 485 ; N fl ; B 19 0 420 753 ;  
C 177 ; WX 500 ; N endash ; B 35 248 465 315 ;  
C 178 ; WX 553 ; N dagger ; B 59 -133 493 740 ;  
C 179 ; WX 553 ; N daggerdbl ; B 59 -133 493 740 ;  
C 180 ; WX 277 ; N periodcentered ; B 102 190 176 316 ;  
C 182 ; WX 564 ; N paragraph ; B 22 -110 551 740 ;

C 183 ; WX 606 ; N bullet ; B 150 222 455 532 ;  
C 184 ; WX 354 ; N quotesinglbase ; B 89 -68 251 126 ;  
C 185 ; WX 502 ; N quotedblbase ; B 89 -68 399 126 ;  
C 186 ; WX 484 ; N quotedblright ; B 96 546 405 740 ;  
C 187 ; WX 425 ; N guillemotright ; B 39 81 385 481 ;  
C 188 ; WX 1000 ; N ellipsis ; B 130 0 870 126 ;  
C 189 ; WX 1174 ; N perthousand ; B 25 -13 1148 751 ;  
C 191 ; WX 591 ; N questiondown ; B 65 -205 527 548 ;  
C 193 ; WX 378 ; N grave ; B 69 619 300 786 ;  
C 194 ; WX 375 ; N acute ; B 78 619 309 786 ;  
C 195 ; WX 502 ; N circumflex ; B 74 639 428 764 ;  
C 196 ; WX 439 ; N tilde ; B 47 651 392 754 ;  
C 197 ; WX 485 ; N macron ; B 73 669 411 736 ;  
C 198 ; WX 453 ; N breve ; B 52 651 401 754 ;  
C 199 ; WX 222 ; N dotaccent ; B 74 639 148 765 ;  
C 200 ; WX 369 ; N dieresis ; B 73 639 295 765 ;  
C 202 ; WX 332 ; N ring ; B 62 600 269 807 ;  
C 203 ; WX 324 ; N cedilla ; B 80 -222 254 0 ;  
C 205 ; WX 552 ; N hungarumlaut ; B 119 605 453 800 ;  
C 206 ; WX 302 ; N ogonek ; B 73 -191 228 0 ;  
C 207 ; WX 502 ; N caron ; B 68 639 423 764 ;  
C 208 ; WX 1000 ; N emdash ; B 35 248 965 315 ;  
C 225 ; WX 992 ; N AE ; B -20 0 907 740 ;  
C 227 ; WX 369 ; N ordfeminine ; B -3 407 356 753 ;  
C 232 ; WX 517 ; N Lslash ; B 59 0 517 740 ;  
C 233 ; WX 868 ; N Oslash ; B 43 -83 826 819 ;  
C 234 ; WX 1194 ; N OE ; B 45 -13 1142 753 ;  
C 235 ; WX 369 ; N ordmasculine ; B 12 407 356 753 ;  
C 241 ; WX 1157 ; N ae ; B 34 -13 1113 561 ;  
C 245 ; WX 200 ; N dotlessi ; B 65 0 135 547 ;  
C 248 ; WX 300 ; N lslash ; B 43 0 259 740 ;  
C 249 ; WX 653 ; N oslash ; B 41 -64 613 614 ;  
C 250 ; WX 1137 ; N oe ; B 34 -13 1104 561 ;  
C 251 ; WX 554 ; N germandbls ; B 61 -13 525 753 ;  
C -1 ; WX 650 ; N ecircumflex ; B 38 -13 608 764 ;  
C -1 ; WX 650 ; N edieresis ; B 38 -13 608 765 ;  
C -1 ; WX 683 ; N aacute ; B 42 -13 621 786 ;  
C -1 ; WX 747 ; N registered ; B -9 -12 755 752 ;  
C -1 ; WX 200 ; N icircumflex ; B -77 0 277 764 ;  
C -1 ; WX 608 ; N udieresis ; B 62 -13 541 765 ;  
C -1 ; WX 655 ; N ograve ; B 42 -13 614 786 ;  
C -1 ; WX 608 ; N uacute ; B 62 -13 541 786 ;  
C -1 ; WX 608 ; N ucircumflex ; B 62 -13 541 764 ;  
C -1 ; WX 740 ; N Aacute ; B 12 0 729 949 ;  
C -1 ; WX 200 ; N igrave ; B -60 0 171 786 ;  
C -1 ; WX 226 ; N Icircumflex ; B -64 0 290 927 ;  
C -1 ; WX 647 ; N ccedilla ; B 41 -222 607 561 ;  
C -1 ; WX 683 ; N adieresis ; B 42 -13 621 765 ;

C -1 ; WX 536 ; N Ecircumflex ; B 70 0 475 927 ;  
C -1 ; WX 388 ; N scaron ; B 11 -13 366 764 ;  
C -1 ; WX 682 ; N thorn ; B 64 -192 643 740 ;  
C -1 ; WX 1000 ; N trademark ; B 9 296 816 740 ;  
C -1 ; WX 650 ; N egrave ; B 38 -13 608 786 ;  
C -1 ; WX 332 ; N threesuperior ; B 18 289 318 747 ;  
C -1 ; WX 425 ; N zcaron ; B 10 0 415 764 ;  
C -1 ; WX 683 ; N atilde ; B 42 -13 621 754 ;  
C -1 ; WX 683 ; N aring ; B 42 -13 621 807 ;  
C -1 ; WX 655 ; N ocircumflex ; B 42 -13 614 764 ;  
C -1 ; WX 536 ; N Edieresis ; B 70 0 475 928 ;  
C -1 ; WX 831 ; N threequarters ; B 46 0 784 747 ;  
C -1 ; WX 536 ; N ydieresis ; B 15 -192 523 765 ;  
C -1 ; WX 536 ; N yacute ; B 15 -192 523 786 ;  
C -1 ; WX 200 ; N iacute ; B 31 0 262 786 ;  
C -1 ; WX 740 ; N Acircumflex ; B 12 0 729 927 ;  
C -1 ; WX 655 ; N Uacute ; B 75 -13 579 949 ;  
C -1 ; WX 650 ; N eacute ; B 38 -13 608 786 ;  
C -1 ; WX 869 ; N Ograve ; B 43 -13 826 949 ;  
C -1 ; WX 683 ; N agrave ; B 42 -13 621 786 ;  
C -1 ; WX 655 ; N Udieresis ; B 75 -13 579 928 ;  
C -1 ; WX 683 ; N acircumflex ; B 42 -13 621 764 ;  
C -1 ; WX 226 ; N Igrave ; B -47 0 184 949 ;  
C -1 ; WX 332 ; N twosuperior ; B 19 296 318 747 ;  
C -1 ; WX 655 ; N Ugrave ; B 75 -13 579 949 ;  
C -1 ; WX 831 ; N onequarter ; B 100 0 729 740 ;  
C -1 ; WX 655 ; N Ucircumflex ; B 75 -13 579 927 ;  
C -1 ; WX 498 ; N Scaron ; B 22 -13 473 927 ;  
C -1 ; WX 226 ; N Idieresis ; B 2 0 224 928 ;  
C -1 ; WX 200 ; N idieresis ; B -11 0 211 765 ;  
C -1 ; WX 536 ; N Egrave ; B 70 0 475 949 ;  
C -1 ; WX 869 ; N Oacute ; B 43 -13 826 949 ;  
C -1 ; WX 606 ; N divide ; B 51 -13 555 519 ;  
C -1 ; WX 740 ; N Atilde ; B 12 0 729 917 ;  
C -1 ; WX 740 ; N Aring ; B 12 0 729 955 ;  
C -1 ; WX 869 ; N Odieresis ; B 43 -13 826 928 ;  
C -1 ; WX 740 ; N Adieresis ; B 12 0 729 928 ;  
C -1 ; WX 740 ; N Ntilde ; B 75 0 664 917 ;  
C -1 ; WX 480 ; N Zcaron ; B 12 0 470 927 ;  
C -1 ; WX 592 ; N Thorn ; B 60 0 549 740 ;  
C -1 ; WX 226 ; N Iacute ; B 44 0 275 949 ;  
C -1 ; WX 606 ; N plusminus ; B 51 -24 555 518 ;  
C -1 ; WX 606 ; N multiply ; B 74 24 533 482 ;  
C -1 ; WX 536 ; N Eacute ; B 70 0 475 949 ;  
C -1 ; WX 592 ; N Ydieresis ; B 1 0 592 928 ;  
C -1 ; WX 332 ; N onesuperior ; B 63 296 198 740 ;  
C -1 ; WX 608 ; N ugrave ; B 62 -13 541 786 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 109 555 388 ;

C -1 ; WX 610 ; N tilde ; B 65 0 546 754 ;  
C -1 ; WX 869 ; N Otilde ; B 43 -13 826 917 ;  
C -1 ; WX 655 ; N otilde ; B 42 -13 614 754 ;  
C -1 ; WX 813 ; N Ccedilla ; B 43 -222 771 752 ;  
C -1 ; WX 740 ; N Agrave ; B 12 0 729 949 ;  
C -1 ; WX 831 ; N onehalf ; B 81 0 750 740 ;  
C -1 ; WX 790 ; N Eth ; B 40 0 739 740 ;  
C -1 ; WX 400 ; N degree ; B 56 421 344 709 ;  
C -1 ; WX 592 ; N Yacute ; B 1 0 592 949 ;  
C -1 ; WX 869 ; N Ocircumflex ; B 43 -13 826 927 ;  
C -1 ; WX 655 ; N oacute ; B 42 -13 614 786 ;  
C -1 ; WX 608 ; N mu ; B 80 -184 527 547 ;  
C -1 ; WX 606 ; N minus ; B 51 219 555 287 ;  
C -1 ; WX 655 ; N eth ; B 42 -12 614 753 ;  
C -1 ; WX 655 ; N odieresis ; B 42 -13 614 765 ;  
C -1 ; WX 747 ; N copyright ; B -9 -12 755 752 ;  
C -1 ; WX 672 ; N brokenbar ; B 299 -100 373 740 ;

EndCharMetrics

StartKernData

StartKernPairs 216

KPX A y -62

KPX A w -65

KPX A v -70

KPX A u -20

KPX A quoteright -100

KPX A quotedblright -100

KPX A Y -92

KPX A W -60

KPX A V -102

KPX A U -40

KPX A T -45

KPX A Q -40

KPX A O -50

KPX A G -40

KPX A C -40

KPX B A -10

KPX C A -40

KPX D period -20

KPX D comma -20

KPX D Y -30

KPX D W -10

KPX D V -50

KPX D A -50



KPX F period -160  
KPX F e -20  
KPX F comma -180  
KPX F a -20  
KPX F A -75

KPX G period -20  
KPX G comma -20  
KPX G Y -20

KPX J period -15  
KPX J a -20  
KPX J A -30

KPX K o -15  
KPX K e -20  
KPX K O -20

KPX L y -23  
KPX L quoteright -130  
KPX L quotedblright -130  
KPX L Y -91  
KPX L W -67  
KPX L V -113  
KPX L T -46

KPX O period -30  
KPX O comma -30  
KPX O Y -30  
KPX O X -30  
KPX O W -20  
KPX O V -60  
KPX O T -30  
KPX O A -60

KPX P period -300  
KPX P o -60  
KPX P e -20  
KPX P comma -280  
KPX P a -20  
KPX P A -114

KPX Q comma 20

KPX R Y -10  
KPX R W 10  
KPX R V -10  
KPX R T 6

KPX S comma 20

KPX T y -50

KPX T w -55

KPX T u -46

KPX T semicolon -29

KPX T r -30

KPX T period -91

KPX T o -70

KPX T i 10

KPX T hyphen -75

KPX T e -49

KPX T comma -82

KPX T colon -15

KPX T a -90

KPX T O -30

KPX T A -45

KPX U period -20

KPX U comma -20

KPX U A -40

KPX V u -40

KPX V semicolon -33

KPX V period -165

KPX V o -101

KPX V i -5

KPX V hyphen -75

KPX V e -101

KPX V comma -145

KPX V colon -18

KPX V a -104

KPX V O -60

KPX V G -20

KPX V A -102

KPX W y -2

KPX W u -30

KPX W semicolon -33

KPX W period -106

KPX W o -46

KPX W i 6

KPX W hyphen -35

KPX W e -47

KPX W comma -106

KPX W colon -15

KPX W a -50

KPX W O -20

KPX W A -58

KPX Y u -52

KPX Y semicolon -23

KPX Y period -175

KPX Y o -89

KPX Y hyphen -85

KPX Y e -89

KPX Y comma -145

KPX Y colon -10

KPX Y a -93

KPX Y O -30

KPX Y A -92

KPX a p 20

KPX a b 20

KPX b y -20

KPX b v -20

KPX c y -20

KPX c k -15

KPX comma space -110

KPX comma quoteright -120

KPX comma quotedblright -120

KPX e y -20

KPX e w -20

KPX e v -20

KPX f period -50

KPX f o -40

KPX f l -30

KPX f i -34

KPX f f -60

KPX f e -20

KPX f dotlessi -34

KPX f comma -50

KPX f a -40

KPX g a -15

KPX h y -30

KPX k y -5

KPX k e -15

KPX m y -20  
KPX m u -20  
KPX m a -20

KPX n y -15  
KPX n v -20

KPX o y -20  
KPX o x -15  
KPX o w -20  
KPX o v -30

KPX p y -20

KPX period space -110  
KPX period quoteright -120  
KPX period quotedblright -120

KPX quotedblleft quoteleft -35  
KPX quotedblleft A -100

KPX quotedblright space -110

KPX quoteleft quoteleft -203  
KPX quoteleft A -100

KPX quoteright v -30  
KPX quoteright t 10  
KPX quoteright space -110  
KPX quoteright s -15  
KPX quoteright r -20  
KPX quoteright quoteright -203  
KPX quoteright quotedblright -35  
KPX quoteright d -110

KPX r y 40  
KPX r v 40  
KPX r u 20  
KPX r t 20  
KPX r s 20  
KPX r q -8  
KPX r period -73  
KPX r p 20  
KPX r o -20  
KPX r n 21  
KPX r m 28  
KPX r l 20

KPX r k 20  
KPX r i 20  
KPX r hyphen -60  
KPX r g -15  
KPX r e -4  
KPX r d -6  
KPX r comma -75  
KPX r c -20  
KPX r a -20

KPX s period 20  
KPX s comma 20

KPX space quoteleft -110  
KPX space quotedbleft -110  
KPX space Y -60  
KPX space W -25  
KPX space V -50  
KPX space T -25  
KPX space A -20

KPX v period -130  
KPX v o -30  
KPX v e -20  
KPX v comma -100  
KPX v a -30

KPX w period -100  
KPX w o -30  
KPX w h 15  
KPX w e -20  
KPX w comma -90  
KPX w a -30

KPX y period -125  
KPX y o -30  
KPX y e -20  
KPX y comma -110  
KPX y a -30

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 183 163 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 119 163 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 186 163 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 181 163 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 204 148 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 151 163 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 81 163 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 17 163 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 84 163 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 79 163 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -34 163 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -138 163 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -71 163 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -116 163 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 151 163 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 247 163 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 184 163 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 163 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 246 163 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 163 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron -2 163 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 160 163 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 77 163 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 143 163 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 119 163 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 129 163 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 112 163 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron -11 163 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 154 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 91 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 157 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 153 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 176 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 122 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 138 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 74 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 141 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 136 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -47 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -151 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -84 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -129 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 86 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 140 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 77 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 143 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 108 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron -57 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 137 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 53 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 120 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 95 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 101 0 ;

CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron -38 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1988, 1989 Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Fri Dec 1 12:57:42 1989  
Comment UniqueID 26200  
Comment VMusage 39281 49041  
FontName ZapfDingbats  
FullName ITC Zapf Dingbats  
FamilyName ITC Zapf Dingbats  
Weight Medium  
ItalicAngle 0  
IsFixedPitch false  
FontBBox -1 -143 981 820  
UnderlinePosition -98  
UnderlineThickness 54  
Version 001.004  
Notice Copyright (c) 1985, 1987, 1988, 1989 Adobe Systems Incorporated. All rights reserved. ITC Zapf Dingbats  
is a registered trademark of International Typeface Corporation.  
EncodingScheme FontSpecific  
StartCharMetrics 202  
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;  
C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;  
C 35 ; WX 974 ; N a202 ; B 35 72 939 621 ;  
C 36 ; WX 980 ; N a3 ; B 35 0 945 692 ;  
C 37 ; WX 719 ; N a4 ; B 34 139 685 566 ;  
C 38 ; WX 789 ; N a5 ; B 35 -14 755 705 ;  
C 39 ; WX 790 ; N a119 ; B 35 -14 755 705 ;  
C 40 ; WX 791 ; N a118 ; B 35 -13 761 705 ;  
C 41 ; WX 690 ; N a117 ; B 35 138 655 553 ;  
C 42 ; WX 960 ; N a11 ; B 35 123 925 568 ;  
C 43 ; WX 939 ; N a12 ; B 35 134 904 559 ;  
C 44 ; WX 549 ; N a13 ; B 29 -11 516 705 ;  
C 45 ; WX 855 ; N a14 ; B 34 59 820 632 ;  
C 46 ; WX 911 ; N a15 ; B 35 50 876 642 ;  
C 47 ; WX 933 ; N a16 ; B 35 139 899 550 ;  
C 48 ; WX 911 ; N a105 ; B 35 50 876 642 ;  
C 49 ; WX 945 ; N a17 ; B 35 139 909 553 ;  
C 50 ; WX 974 ; N a18 ; B 35 104 938 587 ;  
C 51 ; WX 755 ; N a19 ; B 34 -13 721 705 ;  
C 52 ; WX 846 ; N a20 ; B 36 -14 811 705 ;  
C 53 ; WX 762 ; N a21 ; B 35 0 727 692 ;  
C 54 ; WX 761 ; N a22 ; B 35 0 727 692 ;  
C 55 ; WX 571 ; N a23 ; B -1 -68 571 661 ;  
C 56 ; WX 677 ; N a24 ; B 36 -13 642 705 ;

C 57 ; WX 763 ; N a25 ; B 35 0 728 692 ;  
C 58 ; WX 760 ; N a26 ; B 35 0 726 692 ;  
C 59 ; WX 759 ; N a27 ; B 35 0 725 692 ;  
C 60 ; WX 754 ; N a28 ; B 35 0 720 692 ;  
C 61 ; WX 494 ; N a6 ; B 35 0 460 692 ;  
C 62 ; WX 552 ; N a7 ; B 35 0 517 692 ;  
C 63 ; WX 537 ; N a8 ; B 35 0 503 692 ;  
C 64 ; WX 577 ; N a9 ; B 35 96 542 596 ;  
C 65 ; WX 692 ; N a10 ; B 35 -14 657 705 ;  
C 66 ; WX 786 ; N a29 ; B 35 -14 751 705 ;  
C 67 ; WX 788 ; N a30 ; B 35 -14 752 705 ;  
C 68 ; WX 788 ; N a31 ; B 35 -14 753 705 ;  
C 69 ; WX 790 ; N a32 ; B 35 -14 756 705 ;  
C 70 ; WX 793 ; N a33 ; B 35 -13 759 705 ;  
C 71 ; WX 794 ; N a34 ; B 35 -13 759 705 ;  
C 72 ; WX 816 ; N a35 ; B 35 -14 782 705 ;  
C 73 ; WX 823 ; N a36 ; B 35 -14 787 705 ;  
C 74 ; WX 789 ; N a37 ; B 35 -14 754 705 ;  
C 75 ; WX 841 ; N a38 ; B 35 -14 807 705 ;  
C 76 ; WX 823 ; N a39 ; B 35 -14 789 705 ;  
C 77 ; WX 833 ; N a40 ; B 35 -14 798 705 ;  
C 78 ; WX 816 ; N a41 ; B 35 -13 782 705 ;  
C 79 ; WX 831 ; N a42 ; B 35 -14 796 705 ;  
C 80 ; WX 923 ; N a43 ; B 35 -14 888 705 ;  
C 81 ; WX 744 ; N a44 ; B 35 0 710 692 ;  
C 82 ; WX 723 ; N a45 ; B 35 0 688 692 ;  
C 83 ; WX 749 ; N a46 ; B 35 0 714 692 ;  
C 84 ; WX 790 ; N a47 ; B 34 -14 756 705 ;  
C 85 ; WX 792 ; N a48 ; B 35 -14 758 705 ;  
C 86 ; WX 695 ; N a49 ; B 35 -14 661 706 ;  
C 87 ; WX 776 ; N a50 ; B 35 -6 741 699 ;  
C 88 ; WX 768 ; N a51 ; B 35 -7 734 699 ;  
C 89 ; WX 792 ; N a52 ; B 35 -14 757 705 ;  
C 90 ; WX 759 ; N a53 ; B 35 0 725 692 ;  
C 91 ; WX 707 ; N a54 ; B 35 -13 672 704 ;  
C 92 ; WX 708 ; N a55 ; B 35 -14 672 705 ;  
C 93 ; WX 682 ; N a56 ; B 35 -14 647 705 ;  
C 94 ; WX 701 ; N a57 ; B 35 -14 666 705 ;  
C 95 ; WX 826 ; N a58 ; B 35 -14 791 705 ;  
C 96 ; WX 815 ; N a59 ; B 35 -14 780 705 ;  
C 97 ; WX 789 ; N a60 ; B 35 -14 754 705 ;  
C 98 ; WX 789 ; N a61 ; B 35 -14 754 705 ;  
C 99 ; WX 707 ; N a62 ; B 34 -14 673 705 ;  
C 100 ; WX 687 ; N a63 ; B 36 0 651 692 ;  
C 101 ; WX 696 ; N a64 ; B 35 0 661 691 ;  
C 102 ; WX 689 ; N a65 ; B 35 0 655 692 ;  
C 103 ; WX 786 ; N a66 ; B 34 -14 751 705 ;  
C 104 ; WX 787 ; N a67 ; B 35 -14 752 705 ;



C 105 ; WX 713 ; N a68 ; B 35 -14 678 705 ;  
C 106 ; WX 791 ; N a69 ; B 35 -14 756 705 ;  
C 107 ; WX 785 ; N a70 ; B 36 -14 751 705 ;  
C 108 ; WX 791 ; N a71 ; B 35 -14 757 705 ;  
C 109 ; WX 873 ; N a72 ; B 35 -14 838 705 ;  
C 110 ; WX 761 ; N a73 ; B 35 0 726 692 ;  
C 111 ; WX 762 ; N a74 ; B 35 0 727 692 ;  
C 112 ; WX 762 ; N a203 ; B 35 0 727 692 ;  
C 113 ; WX 759 ; N a75 ; B 35 0 725 692 ;  
C 114 ; WX 759 ; N a204 ; B 35 0 725 692 ;  
C 115 ; WX 892 ; N a76 ; B 35 0 858 705 ;  
C 116 ; WX 892 ; N a77 ; B 35 -14 858 692 ;  
C 117 ; WX 788 ; N a78 ; B 35 -14 754 705 ;  
C 118 ; WX 784 ; N a79 ; B 35 -14 749 705 ;  
C 119 ; WX 438 ; N a81 ; B 35 -14 403 705 ;  
C 120 ; WX 138 ; N a82 ; B 35 0 104 692 ;  
C 121 ; WX 277 ; N a83 ; B 35 0 242 692 ;  
C 122 ; WX 415 ; N a84 ; B 35 0 380 692 ;  
C 123 ; WX 392 ; N a97 ; B 35 263 357 705 ;  
C 124 ; WX 392 ; N a98 ; B 34 263 357 705 ;  
C 125 ; WX 668 ; N a99 ; B 35 263 633 705 ;  
C 126 ; WX 668 ; N a100 ; B 36 263 634 705 ;  
C 161 ; WX 732 ; N a101 ; B 35 -143 697 806 ;  
C 162 ; WX 544 ; N a102 ; B 56 -14 488 706 ;  
C 163 ; WX 544 ; N a103 ; B 34 -14 508 705 ;  
C 164 ; WX 910 ; N a104 ; B 35 40 875 651 ;  
C 165 ; WX 667 ; N a106 ; B 35 -14 633 705 ;  
C 166 ; WX 760 ; N a107 ; B 35 -14 726 705 ;  
C 167 ; WX 760 ; N a108 ; B 0 121 758 569 ;  
C 168 ; WX 776 ; N a112 ; B 35 0 741 705 ;  
C 169 ; WX 595 ; N a111 ; B 34 -14 560 705 ;  
C 170 ; WX 694 ; N a110 ; B 35 -14 659 705 ;  
C 171 ; WX 626 ; N a109 ; B 34 0 591 705 ;  
C 172 ; WX 788 ; N a120 ; B 35 -14 754 705 ;  
C 173 ; WX 788 ; N a121 ; B 35 -14 754 705 ;  
C 174 ; WX 788 ; N a122 ; B 35 -14 754 705 ;  
C 175 ; WX 788 ; N a123 ; B 35 -14 754 705 ;  
C 176 ; WX 788 ; N a124 ; B 35 -14 754 705 ;  
C 177 ; WX 788 ; N a125 ; B 35 -14 754 705 ;  
C 178 ; WX 788 ; N a126 ; B 35 -14 754 705 ;  
C 179 ; WX 788 ; N a127 ; B 35 -14 754 705 ;  
C 180 ; WX 788 ; N a128 ; B 35 -14 754 705 ;  
C 181 ; WX 788 ; N a129 ; B 35 -14 754 705 ;  
C 182 ; WX 788 ; N a130 ; B 35 -14 754 705 ;  
C 183 ; WX 788 ; N a131 ; B 35 -14 754 705 ;  
C 184 ; WX 788 ; N a132 ; B 35 -14 754 705 ;  
C 185 ; WX 788 ; N a133 ; B 35 -14 754 705 ;  
C 186 ; WX 788 ; N a134 ; B 35 -14 754 705 ;

C 187 ; WX 788 ; N a135 ; B 35 -14 754 705 ;  
C 188 ; WX 788 ; N a136 ; B 35 -14 754 705 ;  
C 189 ; WX 788 ; N a137 ; B 35 -14 754 705 ;  
C 190 ; WX 788 ; N a138 ; B 35 -14 754 705 ;  
C 191 ; WX 788 ; N a139 ; B 35 -14 754 705 ;  
C 192 ; WX 788 ; N a140 ; B 35 -14 754 705 ;  
C 193 ; WX 788 ; N a141 ; B 35 -14 754 705 ;  
C 194 ; WX 788 ; N a142 ; B 35 -14 754 705 ;  
C 195 ; WX 788 ; N a143 ; B 35 -14 754 705 ;  
C 196 ; WX 788 ; N a144 ; B 35 -14 754 705 ;  
C 197 ; WX 788 ; N a145 ; B 35 -14 754 705 ;  
C 198 ; WX 788 ; N a146 ; B 35 -14 754 705 ;  
C 199 ; WX 788 ; N a147 ; B 35 -14 754 705 ;  
C 200 ; WX 788 ; N a148 ; B 35 -14 754 705 ;  
C 201 ; WX 788 ; N a149 ; B 35 -14 754 705 ;  
C 202 ; WX 788 ; N a150 ; B 35 -14 754 705 ;  
C 203 ; WX 788 ; N a151 ; B 35 -14 754 705 ;  
C 204 ; WX 788 ; N a152 ; B 35 -14 754 705 ;  
C 205 ; WX 788 ; N a153 ; B 35 -14 754 705 ;  
C 206 ; WX 788 ; N a154 ; B 35 -14 754 705 ;  
C 207 ; WX 788 ; N a155 ; B 35 -14 754 705 ;  
C 208 ; WX 788 ; N a156 ; B 35 -14 754 705 ;  
C 209 ; WX 788 ; N a157 ; B 35 -14 754 705 ;  
C 210 ; WX 788 ; N a158 ; B 35 -14 754 705 ;  
C 211 ; WX 788 ; N a159 ; B 35 -14 754 705 ;  
C 212 ; WX 894 ; N a160 ; B 35 58 860 634 ;  
C 213 ; WX 838 ; N a161 ; B 35 152 803 540 ;  
C 214 ; WX 1016 ; N a163 ; B 34 152 981 540 ;  
C 215 ; WX 458 ; N a164 ; B 35 -127 422 820 ;  
C 216 ; WX 748 ; N a196 ; B 35 94 698 597 ;  
C 217 ; WX 924 ; N a165 ; B 35 140 890 552 ;  
C 218 ; WX 748 ; N a192 ; B 35 94 698 597 ;  
C 219 ; WX 918 ; N a166 ; B 35 166 884 526 ;  
C 220 ; WX 927 ; N a167 ; B 35 32 892 660 ;  
C 221 ; WX 928 ; N a168 ; B 35 129 891 562 ;  
C 222 ; WX 928 ; N a169 ; B 35 128 893 563 ;  
C 223 ; WX 834 ; N a170 ; B 35 155 799 537 ;  
C 224 ; WX 873 ; N a171 ; B 35 93 838 599 ;  
C 225 ; WX 828 ; N a172 ; B 35 104 791 588 ;  
C 226 ; WX 924 ; N a173 ; B 35 98 889 594 ;  
C 227 ; WX 924 ; N a162 ; B 35 98 889 594 ;  
C 228 ; WX 917 ; N a174 ; B 35 0 882 692 ;  
C 229 ; WX 930 ; N a175 ; B 35 84 896 608 ;  
C 230 ; WX 931 ; N a176 ; B 35 84 896 608 ;  
C 231 ; WX 463 ; N a177 ; B 35 -99 429 791 ;  
C 232 ; WX 883 ; N a178 ; B 35 71 848 623 ;  
C 233 ; WX 836 ; N a179 ; B 35 44 802 648 ;  
C 234 ; WX 836 ; N a193 ; B 35 44 802 648 ;

C 235 ; WX 867 ; N a180 ; B 35 101 832 591 ;  
C 236 ; WX 867 ; N a199 ; B 35 101 832 591 ;  
C 237 ; WX 696 ; N a181 ; B 35 44 661 648 ;  
C 238 ; WX 696 ; N a200 ; B 35 44 661 648 ;  
C 239 ; WX 874 ; N a182 ; B 35 77 840 619 ;  
C 241 ; WX 874 ; N a201 ; B 35 73 840 615 ;  
C 242 ; WX 760 ; N a183 ; B 35 0 725 692 ;  
C 243 ; WX 946 ; N a184 ; B 35 160 911 533 ;  
C 244 ; WX 771 ; N a197 ; B 34 37 736 655 ;  
C 245 ; WX 865 ; N a185 ; B 35 207 830 481 ;  
C 246 ; WX 771 ; N a194 ; B 34 37 736 655 ;  
C 247 ; WX 888 ; N a198 ; B 34 -19 853 712 ;  
C 248 ; WX 967 ; N a186 ; B 35 124 932 568 ;  
C 249 ; WX 888 ; N a195 ; B 34 -19 853 712 ;  
C 250 ; WX 831 ; N a187 ; B 35 113 796 579 ;  
C 251 ; WX 873 ; N a188 ; B 36 118 838 578 ;  
C 252 ; WX 927 ; N a189 ; B 35 150 891 542 ;  
C 253 ; WX 970 ; N a190 ; B 35 76 931 616 ;  
C 254 ; WX 918 ; N a191 ; B 34 99 884 593 ;  
C -1 ; WX 410 ; N a86 ; B 35 0 375 692 ;  
C -1 ; WX 509 ; N a85 ; B 35 0 475 692 ;  
C -1 ; WX 334 ; N a95 ; B 35 0 299 692 ;  
C -1 ; WX 509 ; N a205 ; B 35 0 475 692 ;  
C -1 ; WX 390 ; N a89 ; B 35 -14 356 705 ;  
C -1 ; WX 234 ; N a87 ; B 35 -14 199 705 ;  
C -1 ; WX 276 ; N a91 ; B 35 0 242 692 ;  
C -1 ; WX 390 ; N a90 ; B 35 -14 355 705 ;  
C -1 ; WX 410 ; N a206 ; B 35 0 375 692 ;  
C -1 ; WX 317 ; N a94 ; B 35 0 283 692 ;  
C -1 ; WX 317 ; N a93 ; B 35 0 283 692 ;  
C -1 ; WX 276 ; N a92 ; B 35 0 242 692 ;  
C -1 ; WX 334 ; N a96 ; B 35 0 299 692 ;  
C -1 ; WX 234 ; N a88 ; B 35 -14 199 705 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.

Comment Creation Date: Thu Mar 15 11:25:48 1990

Comment UniqueID 28389

Comment VMusage 7572 42473

FontName Helvetica-Narrow-Oblique

FullName Helvetica Narrow Oblique

FamilyName Helvetica

Weight Medium

ItalicAngle -12

IsFixedPitch false

FontBBox -139 -225 915 931

UnderlinePosition -100

UnderlineThickness 50

Version 001.006

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 228 ; N space ; B 0 0 0 0 ;

C 33 ; WX 228 ; N exclam ; B 74 0 278 718 ;

C 34 ; WX 291 ; N quotedbl ; B 138 463 359 718 ;

C 35 ; WX 456 ; N numbersign ; B 60 0 517 688 ;

C 36 ; WX 456 ; N dollar ; B 57 -115 506 775 ;

C 37 ; WX 729 ; N percent ; B 120 -19 729 703 ;

C 38 ; WX 547 ; N ampersand ; B 63 -15 530 718 ;

C 39 ; WX 182 ; N quoteright ; B 124 463 254 718 ;

C 40 ; WX 273 ; N parenleft ; B 89 -207 372 733 ;

C 41 ; WX 273 ; N parenright ; B -7 -207 276 733 ;

C 42 ; WX 319 ; N asterisk ; B 135 431 389 718 ;

C 43 ; WX 479 ; N plus ; B 70 0 497 505 ;

C 44 ; WX 228 ; N comma ; B 46 -147 175 106 ;

C 45 ; WX 273 ; N hyphen ; B 77 232 293 322 ;

C 46 ; WX 228 ; N period ; B 71 0 175 106 ;

C 47 ; WX 228 ; N slash ; B -17 -19 370 737 ;

C 48 ; WX 456 ; N zero ; B 77 -19 499 703 ;

C 49 ; WX 456 ; N one ; B 170 0 417 703 ;

C 50 ; WX 456 ; N two ; B 21 0 506 703 ;

C 51 ; WX 456 ; N three ; B 61 -19 500 703 ;

C 52 ; WX 456 ; N four ; B 50 0 472 703 ;

C 53 ; WX 456 ; N five ; B 55 -19 509 688 ;

C 54 ; WX 456 ; N six ; B 74 -19 504 703 ;

C 55 ; WX 456 ; N seven ; B 112 0 549 688 ;

C 56 ; WX 456 ; N eight ; B 60 -19 497 703 ;

C 57 ; WX 456 ; N nine ; B 67 -19 499 703 ;

C 58 ; WX 228 ; N colon ; B 71 0 247 516 ;

C 59 ; WX 228 ; N semicolon ; B 46 -147 247 516 ;

C 60 ; WX 479 ; N less ; B 77 11 526 495 ;

C 61 ; WX 479 ; N equal ; B 52 115 515 390 ;

C 62 ; WX 479 ; N greater ; B 41 11 490 495 ;

C 63 ; WX 456 ; N question ; B 132 0 500 727 ;

C 64 ; WX 832 ; N at ; B 176 -19 791 737 ;

C 65 ; WX 547 ; N A ; B 11 0 536 718 ;

C 66 ; WX 547 ; N B ; B 61 0 583 718 ;

C 67 ; WX 592 ; N C ; B 88 -19 640 737 ;

C 68 ; WX 592 ; N D ; B 66 0 626 718 ;

C 69 ; WX 547 ; N E ; B 71 0 625 718 ;

C 70 ; WX 501 ; N F ; B 71 0 603 718 ;  
C 71 ; WX 638 ; N G ; B 91 -19 655 737 ;  
C 72 ; WX 592 ; N H ; B 63 0 655 718 ;  
C 73 ; WX 228 ; N I ; B 75 0 279 718 ;  
C 74 ; WX 410 ; N J ; B 39 -19 476 718 ;  
C 75 ; WX 547 ; N K ; B 62 0 662 718 ;  
C 76 ; WX 456 ; N L ; B 62 0 455 718 ;  
C 77 ; WX 683 ; N M ; B 60 0 749 718 ;  
C 78 ; WX 592 ; N N ; B 62 0 655 718 ;  
C 79 ; WX 638 ; N O ; B 86 -19 677 737 ;  
C 80 ; WX 547 ; N P ; B 71 0 604 718 ;  
C 81 ; WX 638 ; N Q ; B 86 -56 677 737 ;  
C 82 ; WX 592 ; N R ; B 72 0 634 718 ;  
C 83 ; WX 547 ; N S ; B 74 -19 584 737 ;  
C 84 ; WX 501 ; N T ; B 122 0 615 718 ;  
C 85 ; WX 592 ; N U ; B 101 -19 653 718 ;  
C 86 ; WX 547 ; N V ; B 142 0 656 718 ;  
C 87 ; WX 774 ; N W ; B 138 0 886 718 ;  
C 88 ; WX 547 ; N X ; B 16 0 647 718 ;  
C 89 ; WX 547 ; N Y ; B 137 0 661 718 ;  
C 90 ; WX 501 ; N Z ; B 19 0 607 718 ;  
C 91 ; WX 228 ; N bracketleft ; B 17 -196 331 722 ;  
C 92 ; WX 228 ; N backslash ; B 115 -19 239 737 ;  
C 93 ; WX 228 ; N bracketright ; B -11 -196 302 722 ;  
C 94 ; WX 385 ; N asciicircum ; B 35 264 442 688 ;  
C 95 ; WX 456 ; N underscore ; B -22 -125 443 -75 ;  
C 96 ; WX 182 ; N quoteleft ; B 135 470 265 725 ;  
C 97 ; WX 456 ; N a ; B 50 -15 458 538 ;  
C 98 ; WX 456 ; N b ; B 48 -15 479 718 ;  
C 99 ; WX 410 ; N c ; B 61 -15 454 538 ;  
C 100 ; WX 456 ; N d ; B 69 -15 534 718 ;  
C 101 ; WX 456 ; N e ; B 69 -15 474 538 ;  
C 102 ; WX 228 ; N f ; B 71 0 341 728 ; L i f i ; L l f l ;  
C 103 ; WX 456 ; N g ; B 34 -220 500 538 ;  
C 104 ; WX 456 ; N h ; B 53 0 470 718 ;  
C 105 ; WX 182 ; N i ; B 55 0 252 718 ;  
C 106 ; WX 182 ; N j ; B -49 -210 252 718 ;  
C 107 ; WX 410 ; N k ; B 55 0 492 718 ;  
C 108 ; WX 182 ; N l ; B 55 0 252 718 ;  
C 109 ; WX 683 ; N m ; B 53 0 699 538 ;  
C 110 ; WX 456 ; N n ; B 53 0 470 538 ;  
C 111 ; WX 456 ; N o ; B 68 -14 479 538 ;  
C 112 ; WX 456 ; N p ; B 11 -207 479 538 ;  
C 113 ; WX 456 ; N q ; B 69 -207 496 538 ;  
C 114 ; WX 273 ; N r ; B 63 0 365 538 ;  
C 115 ; WX 410 ; N s ; B 52 -15 434 538 ;  
C 116 ; WX 228 ; N t ; B 84 -7 302 669 ;  
C 117 ; WX 456 ; N u ; B 77 -15 492 523 ;

C 118 ; WX 410 ; N v ; B 98 0 495 523 ;  
C 119 ; WX 592 ; N w ; B 103 0 673 523 ;  
C 120 ; WX 410 ; N x ; B 9 0 487 523 ;  
C 121 ; WX 410 ; N y ; B 12 -214 492 523 ;  
C 122 ; WX 410 ; N z ; B 25 0 468 523 ;  
C 123 ; WX 274 ; N braceleft ; B 75 -196 365 722 ;  
C 124 ; WX 213 ; N bar ; B 74 -19 265 737 ;  
C 125 ; WX 274 ; N braceright ; B 0 -196 291 722 ;  
C 126 ; WX 479 ; N asciitilde ; B 91 180 476 326 ;  
C 161 ; WX 273 ; N exclamdown ; B 63 -195 267 523 ;  
C 162 ; WX 456 ; N cent ; B 78 -115 479 623 ;  
C 163 ; WX 456 ; N sterling ; B 40 -16 520 718 ;  
C 164 ; WX 137 ; N fraction ; B -139 -19 396 703 ;  
C 165 ; WX 456 ; N yen ; B 67 0 573 688 ;  
C 166 ; WX 456 ; N florin ; B -43 -207 537 737 ;  
C 167 ; WX 456 ; N section ; B 63 -191 479 737 ;  
C 168 ; WX 456 ; N currency ; B 49 99 530 603 ;  
C 169 ; WX 157 ; N quotesingle ; B 129 463 233 718 ;  
C 170 ; WX 273 ; N quotedblleft ; B 113 470 378 725 ;  
C 171 ; WX 456 ; N guillemotleft ; B 120 108 454 446 ;  
C 172 ; WX 273 ; N guilsinglleft ; B 112 108 279 446 ;  
C 173 ; WX 273 ; N guilsinglright ; B 91 108 257 446 ;  
C 174 ; WX 410 ; N fi ; B 71 0 481 728 ;  
C 175 ; WX 410 ; N fl ; B 71 0 479 728 ;  
C 177 ; WX 456 ; N endash ; B 42 240 510 313 ;  
C 178 ; WX 456 ; N dagger ; B 110 -159 510 718 ;  
C 179 ; WX 456 ; N daggerdbl ; B 43 -159 511 718 ;  
C 180 ; WX 228 ; N periodcentered ; B 106 190 211 315 ;  
C 182 ; WX 440 ; N paragraph ; B 103 -173 533 718 ;  
C 183 ; WX 287 ; N bullet ; B 74 202 339 517 ;  
C 184 ; WX 182 ; N quotesinglbase ; B 17 -149 147 106 ;  
C 185 ; WX 273 ; N quotedblbase ; B -5 -149 260 106 ;  
C 186 ; WX 273 ; N quotedblright ; B 102 463 367 718 ;  
C 187 ; WX 456 ; N guillemotright ; B 98 108 433 446 ;  
C 188 ; WX 820 ; N ellipsis ; B 94 0 744 106 ;  
C 189 ; WX 820 ; N perthousand ; B 72 -19 844 703 ;  
C 191 ; WX 501 ; N questiondown ; B 70 -201 438 525 ;  
C 193 ; WX 273 ; N grave ; B 139 593 276 734 ;  
C 194 ; WX 273 ; N acute ; B 203 593 390 734 ;  
C 195 ; WX 273 ; N circumflex ; B 121 593 359 734 ;  
C 196 ; WX 273 ; N tilde ; B 102 606 402 722 ;  
C 197 ; WX 273 ; N macron ; B 117 627 384 684 ;  
C 198 ; WX 273 ; N breve ; B 137 595 391 731 ;  
C 199 ; WX 273 ; N dotaccent ; B 204 604 297 706 ;  
C 200 ; WX 273 ; N dieresis ; B 138 604 363 706 ;  
C 202 ; WX 273 ; N ring ; B 175 572 330 756 ;  
C 203 ; WX 273 ; N cedilla ; B 2 -225 191 0 ;  
C 205 ; WX 273 ; N hungarumlaut ; B 129 593 463 734 ;

C 206 ; WX 273 ; N ogonek ; B 35 -225 204 0 ;  
C 207 ; WX 273 ; N caron ; B 145 593 384 734 ;  
C 208 ; WX 820 ; N emdash ; B 42 240 875 313 ;  
C 225 ; WX 820 ; N AE ; B 7 0 899 718 ;  
C 227 ; WX 303 ; N ordfeminine ; B 82 304 368 737 ;  
C 232 ; WX 456 ; N Lslash ; B 34 0 455 718 ;  
C 233 ; WX 638 ; N Oslash ; B 35 -19 730 737 ;  
C 234 ; WX 820 ; N OE ; B 80 -19 915 737 ;  
C 235 ; WX 299 ; N ordmasculine ; B 82 304 384 737 ;  
C 241 ; WX 729 ; N ae ; B 50 -15 746 538 ;  
C 245 ; WX 228 ; N dotlessi ; B 78 0 241 523 ;  
C 248 ; WX 182 ; N lslash ; B 34 0 284 718 ;  
C 249 ; WX 501 ; N oslash ; B 24 -22 531 545 ;  
C 250 ; WX 774 ; N oe ; B 68 -15 791 538 ;  
C 251 ; WX 501 ; N germandbls ; B 55 -15 539 728 ;  
C -1 ; WX 501 ; N Zcaron ; B 19 0 607 929 ;  
C -1 ; WX 410 ; N ccedilla ; B 61 -225 454 538 ;  
C -1 ; WX 410 ; N ydieresis ; B 12 -214 492 706 ;  
C -1 ; WX 456 ; N atilde ; B 50 -15 486 722 ;  
C -1 ; WX 228 ; N icircumflex ; B 78 0 337 734 ;  
C -1 ; WX 273 ; N threesuperior ; B 74 270 358 703 ;  
C -1 ; WX 456 ; N ecircumflex ; B 69 -15 474 734 ;  
C -1 ; WX 456 ; N thorn ; B 11 -207 479 718 ;  
C -1 ; WX 456 ; N egrave ; B 69 -15 474 734 ;  
C -1 ; WX 273 ; N twosuperior ; B 52 281 368 703 ;  
C -1 ; WX 456 ; N eacute ; B 69 -15 481 734 ;  
C -1 ; WX 456 ; N otilde ; B 68 -14 494 722 ;  
C -1 ; WX 547 ; N Aacute ; B 11 0 560 929 ;  
C -1 ; WX 456 ; N ocircumflex ; B 68 -14 479 734 ;  
C -1 ; WX 410 ; N yacute ; B 12 -214 492 734 ;  
C -1 ; WX 456 ; N udieresis ; B 77 -15 492 706 ;  
C -1 ; WX 684 ; N threequarters ; B 106 -19 706 703 ;  
C -1 ; WX 456 ; N acircumflex ; B 50 -15 458 734 ;  
C -1 ; WX 592 ; N Eth ; B 57 0 626 718 ;  
C -1 ; WX 456 ; N edieresis ; B 69 -15 474 706 ;  
C -1 ; WX 456 ; N ugrave ; B 77 -15 492 734 ;  
C -1 ; WX 820 ; N trademark ; B 152 306 866 718 ;  
C -1 ; WX 456 ; N ograve ; B 68 -14 479 734 ;  
C -1 ; WX 410 ; N scaron ; B 52 -15 453 734 ;  
C -1 ; WX 228 ; N Idieresis ; B 75 0 375 901 ;  
C -1 ; WX 456 ; N uacute ; B 77 -15 492 734 ;  
C -1 ; WX 456 ; N agrave ; B 50 -15 458 734 ;  
C -1 ; WX 456 ; N ntilde ; B 53 0 486 722 ;  
C -1 ; WX 456 ; N aring ; B 50 -15 458 756 ;  
C -1 ; WX 410 ; N zcaron ; B 25 0 468 734 ;  
C -1 ; WX 228 ; N Icircumflex ; B 75 0 371 929 ;  
C -1 ; WX 592 ; N Ntilde ; B 62 0 655 917 ;  
C -1 ; WX 456 ; N ucircumflex ; B 77 -15 492 734 ;

C -1 ; WX 547 ; N Ecircumflex ; B 71 0 625 929 ;  
 C -1 ; WX 228 ; N Iacute ; B 75 0 401 929 ;  
 C -1 ; WX 592 ; N Ccedilla ; B 88 -225 640 737 ;  
 C -1 ; WX 638 ; N Odieresis ; B 86 -19 677 901 ;  
 C -1 ; WX 547 ; N Scaron ; B 74 -19 584 929 ;  
 C -1 ; WX 547 ; N Edieresis ; B 71 0 625 901 ;  
 C -1 ; WX 228 ; N Igrave ; B 75 0 288 929 ;  
 C -1 ; WX 456 ; N adieresis ; B 50 -15 458 706 ;  
 C -1 ; WX 638 ; N Ograve ; B 86 -19 677 929 ;  
 C -1 ; WX 547 ; N Egrave ; B 71 0 625 929 ;  
 C -1 ; WX 547 ; N Ydieresis ; B 137 0 661 901 ;  
 C -1 ; WX 604 ; N registered ; B 44 -19 687 737 ;  
 C -1 ; WX 638 ; N Otilde ; B 86 -19 677 917 ;  
 C -1 ; WX 684 ; N onequarter ; B 123 -19 658 703 ;  
 C -1 ; WX 592 ; N Ugrave ; B 101 -19 653 929 ;  
 C -1 ; WX 592 ; N Ucircumflex ; B 101 -19 653 929 ;  
 C -1 ; WX 547 ; N Thorn ; B 71 0 584 718 ;  
 C -1 ; WX 479 ; N divide ; B 70 -19 497 524 ;  
 C -1 ; WX 547 ; N Atilde ; B 11 0 573 917 ;  
 C -1 ; WX 592 ; N Uacute ; B 101 -19 653 929 ;  
 C -1 ; WX 638 ; N Ocircumflex ; B 86 -19 677 929 ;  
 C -1 ; WX 479 ; N logicalnot ; B 87 108 515 390 ;  
 C -1 ; WX 547 ; N Aring ; B 11 0 536 931 ;  
 C -1 ; WX 228 ; N idieresis ; B 78 0 341 706 ;  
 C -1 ; WX 228 ; N iacute ; B 78 0 367 734 ;  
 C -1 ; WX 456 ; N aacute ; B 50 -15 481 734 ;  
 C -1 ; WX 479 ; N plusminus ; B 32 0 507 506 ;  
 C -1 ; WX 479 ; N multiply ; B 41 0 526 506 ;  
 C -1 ; WX 592 ; N Udieresis ; B 101 -19 653 901 ;  
 C -1 ; WX 479 ; N minus ; B 70 216 497 289 ;  
 C -1 ; WX 273 ; N onesuperior ; B 136 281 305 703 ;  
 C -1 ; WX 547 ; N Eacute ; B 71 0 625 929 ;  
 C -1 ; WX 547 ; N Acircumflex ; B 11 0 536 929 ;  
 C -1 ; WX 604 ; N copyright ; B 44 -19 687 737 ;  
 C -1 ; WX 547 ; N Agrave ; B 11 0 536 929 ;  
 C -1 ; WX 456 ; N odieresis ; B 68 -14 479 706 ;  
 C -1 ; WX 456 ; N oacute ; B 68 -14 481 734 ;  
 C -1 ; WX 328 ; N degree ; B 138 411 384 703 ;  
 C -1 ; WX 228 ; N igrave ; B 78 0 254 734 ;  
 C -1 ; WX 456 ; N mu ; B 20 -207 492 523 ;  
 C -1 ; WX 638 ; N Oacute ; B 86 -19 677 929 ;  
 C -1 ; WX 456 ; N eth ; B 67 -15 506 737 ;  
 C -1 ; WX 547 ; N Adieresis ; B 11 0 536 901 ;  
 C -1 ; WX 547 ; N Yacute ; B 137 0 661 929 ;  
 C -1 ; WX 213 ; N brokenbar ; B 74 -19 265 737 ;  
 C -1 ; WX 684 ; N onehalf ; B 93 -19 688 703 ;  
 EndCharMetrics  
 StartKernData



StartKernPairs 250

KPX A y -40  
KPX A w -40  
KPX A v -40  
KPX A u -30  
KPX A Y -100  
KPX A W -50  
KPX A V -70  
KPX A U -50  
KPX A T -120  
KPX A Q -30  
KPX A O -30  
KPX A G -30  
KPX A C -30

KPX B period -20  
KPX B comma -20  
KPX B U -10

KPX C period -30  
KPX C comma -30

KPX D period -70  
KPX D comma -70  
KPX D Y -90  
KPX D W -40  
KPX D V -70  
KPX D A -40

KPX F r -45  
KPX F period -150  
KPX F o -30  
KPX F e -30  
KPX F comma -150  
KPX F a -50  
KPX F A -80

KPX J u -20  
KPX J period -30  
KPX J comma -30  
KPX J a -20  
KPX J A -20

KPX K y -50  
KPX K u -30  
KPX K o -40  
KPX K e -40

KPX K O -50

KPX L y -30

KPX L quoteright -160

KPX L quotedblright -140

KPX L Y -140

KPX L W -70

KPX L V -110

KPX L T -110

KPX O period -40

KPX O comma -40

KPX O Y -70

KPX O X -60

KPX O W -30

KPX O V -50

KPX O T -40

KPX O A -20

KPX P period -180

KPX P o -50

KPX P e -50

KPX P comma -180

KPX P a -40

KPX P A -120

KPX Q U -10

KPX R Y -50

KPX R W -30

KPX R V -50

KPX R U -40

KPX R T -30

KPX R O -20

KPX S period -20

KPX S comma -20

KPX T y -120

KPX T w -120

KPX T u -120

KPX T semicolon -20

KPX T r -120

KPX T period -120

KPX T o -120

KPX T hyphen -140

KPX T e -120

KPX T comma -120

KPX T colon -20  
KPX T a -120  
KPX T O -40  
KPX T A -120

KPX U period -40  
KPX U comma -40  
KPX U A -40

KPX V u -70  
KPX V semicolon -40  
KPX V period -125  
KPX V o -80  
KPX V hyphen -80  
KPX V e -80  
KPX V comma -125  
KPX V colon -40  
KPX V a -70  
KPX V O -40  
KPX V G -40  
KPX V A -80

KPX W y -20  
KPX W u -30  
KPX W period -80  
KPX W o -30  
KPX W hyphen -40  
KPX W e -30  
KPX W comma -80  
KPX W a -40  
KPX W O -20  
KPX W A -50

KPX Y u -110  
KPX Y semicolon -60  
KPX Y period -140  
KPX Y o -140  
KPX Y i -20  
KPX Y hyphen -140  
KPX Y e -140  
KPX Y comma -140  
KPX Y colon -60  
KPX Y a -140  
KPX Y O -85  
KPX Y A -110

KPX a y -30  
KPX a w -20

KPX a v -20

KPX b y -20

KPX b v -20

KPX b u -20

KPX b period -40

KPX b l -20

KPX b comma -40

KPX b b -10

KPX c k -20

KPX c comma -15

KPX colon space -50

KPX comma quoteright -100

KPX comma quotedblright -100

KPX e y -20

KPX e x -30

KPX e w -20

KPX e v -30

KPX e period -15

KPX e comma -15

KPX f quoteright 50

KPX f quotedblright 60

KPX f period -30

KPX f o -30

KPX f e -30

KPX f dotlessi -28

KPX f comma -30

KPX f a -30

KPX g r -10

KPX h y -30

KPX k o -20

KPX k e -20

KPX m y -15

KPX m u -10

KPX n y -15

KPX n v -20

KPX n u -10

KPX o y -30  
KPX o x -30  
KPX o w -15  
KPX o v -15  
KPX o period -40  
KPX o comma -40

KPX oslash z -55  
KPX oslash y -70  
KPX oslash x -85  
KPX oslash w -70  
KPX oslash v -70  
KPX oslash u -55  
KPX oslash t -55  
KPX oslash s -55  
KPX oslash r -55  
KPX oslash q -55  
KPX oslash period -95  
KPX oslash p -55  
KPX oslash o -55  
KPX oslash n -55  
KPX oslash m -55  
KPX oslash l -55  
KPX oslash k -55  
KPX oslash j -55  
KPX oslash i -55  
KPX oslash h -55  
KPX oslash g -55  
KPX oslash f -55  
KPX oslash e -55  
KPX oslash d -55  
KPX oslash comma -95  
KPX oslash c -55  
KPX oslash b -55  
KPX oslash a -55

KPX p y -30  
KPX p period -35  
KPX p comma -35

KPX period space -60  
KPX period quoteright -100  
KPX period quotedblright -100

KPX quotedblright space -40

KPX quoteleft quoteleft -57

KPX quoteright space -70  
KPX quoteright s -50  
KPX quoteright r -50  
KPX quoteright quoteright -57  
KPX quoteright d -50

KPX r y 30  
KPX r v 30  
KPX r u 15  
KPX r t 40  
KPX r semicolon 30  
KPX r period -50  
KPX r p 30  
KPX r n 25  
KPX r m 25  
KPX r l 15  
KPX r k 15  
KPX r i 15  
KPX r comma -50  
KPX r colon 30  
KPX r a -10

KPX s w -30  
KPX s period -15  
KPX s comma -15

KPX semicolon space -50

KPX space quoteleft -60  
KPX space quotedblleft -30  
KPX space Y -90  
KPX space W -40  
KPX space V -50  
KPX space T -50

KPX v period -80  
KPX v o -25  
KPX v e -25  
KPX v comma -80  
KPX v a -25

KPX w period -60  
KPX w o -10  
KPX w e -10  
KPX w comma -60  
KPX w a -15

KPX x e -30

KPX y period -100  
KPX y o -20  
KPX y e -20  
KPX y comma -100  
KPX y a -20

KPX z o -15  
KPX z e -15  
EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 171 195 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 171 195 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 171 195 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 171 195 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 171 195 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 171 195 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 171 195 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 171 195 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 171 195 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 12 195 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 12 195 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 12 195 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 12 195 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 202 195 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 217 195 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 217 195 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 217 195 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 217 195 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 217 195 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 171 195 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 195 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 195 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 195 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 195 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 171 195 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 171 195 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 148 195 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;

CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -22 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -22 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -22 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 84 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 92 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 92 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 92 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 92 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 92 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 69 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 92 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 92 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 92 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 92 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 69 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 69 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 69 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue Mar 20 13:14:56 1990

Comment UniqueID 28427

Comment VMusage 32912 39804

FontName Times-Italic

FullName Times Italic

FamilyName Times

Weight Medium

ItalicAngle -15.5

IsFixedPitch false

FontBBox -169 -217 1010 883

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Times is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 653

XHeight 441

Ascender 683

Descender -205

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;



C 33 ; WX 333 ; N exclam ; B 39 -11 302 667 ;  
C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;  
C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;  
C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;  
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;  
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;  
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;  
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;  
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;  
C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;  
C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;  
C 44 ; WX 250 ; N comma ; B -4 -129 135 101 ;  
C 45 ; WX 333 ; N hyphen ; B 49 192 282 255 ;  
C 46 ; WX 250 ; N period ; B 27 -11 138 100 ;  
C 47 ; WX 278 ; N slash ; B -65 -18 386 666 ;  
C 48 ; WX 500 ; N zero ; B 32 -7 497 676 ;  
C 49 ; WX 500 ; N one ; B 49 0 409 676 ;  
C 50 ; WX 500 ; N two ; B 12 0 452 676 ;  
C 51 ; WX 500 ; N three ; B 15 -7 465 676 ;  
C 52 ; WX 500 ; N four ; B 1 0 479 676 ;  
C 53 ; WX 500 ; N five ; B 15 -7 491 666 ;  
C 54 ; WX 500 ; N six ; B 30 -7 521 686 ;  
C 55 ; WX 500 ; N seven ; B 75 -8 537 666 ;  
C 56 ; WX 500 ; N eight ; B 30 -7 493 676 ;  
C 57 ; WX 500 ; N nine ; B 23 -17 492 676 ;  
C 58 ; WX 333 ; N colon ; B 50 -11 261 441 ;  
C 59 ; WX 333 ; N semicolon ; B 27 -129 261 441 ;  
C 60 ; WX 675 ; N less ; B 84 -8 592 514 ;  
C 61 ; WX 675 ; N equal ; B 86 120 590 386 ;  
C 62 ; WX 675 ; N greater ; B 84 -8 592 514 ;  
C 63 ; WX 500 ; N question ; B 132 -12 472 664 ;  
C 64 ; WX 920 ; N at ; B 118 -18 806 666 ;  
C 65 ; WX 611 ; N A ; B -51 0 564 668 ;  
C 66 ; WX 611 ; N B ; B -8 0 588 653 ;  
C 67 ; WX 667 ; N C ; B 66 -18 689 666 ;  
C 68 ; WX 722 ; N D ; B -8 0 700 653 ;  
C 69 ; WX 611 ; N E ; B -1 0 634 653 ;  
C 70 ; WX 611 ; N F ; B 8 0 645 653 ;  
C 71 ; WX 722 ; N G ; B 52 -18 722 666 ;  
C 72 ; WX 722 ; N H ; B -8 0 767 653 ;  
C 73 ; WX 333 ; N I ; B -8 0 384 653 ;  
C 74 ; WX 444 ; N J ; B -6 -18 491 653 ;  
C 75 ; WX 667 ; N K ; B 7 0 722 653 ;  
C 76 ; WX 556 ; N L ; B -8 0 559 653 ;  
C 77 ; WX 833 ; N M ; B -18 0 873 653 ;  
C 78 ; WX 667 ; N N ; B -20 -15 727 653 ;  
C 79 ; WX 722 ; N O ; B 60 -18 699 666 ;  
C 80 ; WX 611 ; N P ; B 0 0 605 653 ;

C 81 ; WX 722 ; N Q ; B 59 -182 699 666 ;  
C 82 ; WX 611 ; N R ; B -13 0 588 653 ;  
C 83 ; WX 500 ; N S ; B 17 -18 508 667 ;  
C 84 ; WX 556 ; N T ; B 59 0 633 653 ;  
C 85 ; WX 722 ; N U ; B 102 -18 765 653 ;  
C 86 ; WX 611 ; N V ; B 76 -18 688 653 ;  
C 87 ; WX 833 ; N W ; B 71 -18 906 653 ;  
C 88 ; WX 611 ; N X ; B -29 0 655 653 ;  
C 89 ; WX 556 ; N Y ; B 78 0 633 653 ;  
C 90 ; WX 556 ; N Z ; B -6 0 606 653 ;  
C 91 ; WX 389 ; N bracketleft ; B 21 -153 391 663 ;  
C 92 ; WX 278 ; N backslash ; B -41 -18 319 666 ;  
C 93 ; WX 389 ; N bracketright ; B 12 -153 382 663 ;  
C 94 ; WX 422 ; N asciicircum ; B 0 301 422 666 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 171 436 310 666 ;  
C 97 ; WX 500 ; N a ; B 17 -11 476 441 ;  
C 98 ; WX 500 ; N b ; B 23 -11 473 683 ;  
C 99 ; WX 444 ; N c ; B 30 -11 425 441 ;  
C 100 ; WX 500 ; N d ; B 15 -13 527 683 ;  
C 101 ; WX 444 ; N e ; B 31 -11 412 441 ;  
C 102 ; WX 278 ; N f ; B -147 -207 424 678 ; L i f i ; L l f l ;  
C 103 ; WX 500 ; N g ; B 8 -206 472 441 ;  
C 104 ; WX 500 ; N h ; B 19 -9 478 683 ;  
C 105 ; WX 278 ; N i ; B 49 -11 264 654 ;  
C 106 ; WX 278 ; N j ; B -124 -207 276 654 ;  
C 107 ; WX 444 ; N k ; B 14 -11 461 683 ;  
C 108 ; WX 278 ; N l ; B 41 -11 279 683 ;  
C 109 ; WX 722 ; N m ; B 12 -9 704 441 ;  
C 110 ; WX 500 ; N n ; B 14 -9 474 441 ;  
C 111 ; WX 500 ; N o ; B 27 -11 468 441 ;  
C 112 ; WX 500 ; N p ; B -75 -205 469 441 ;  
C 113 ; WX 500 ; N q ; B 25 -209 483 441 ;  
C 114 ; WX 389 ; N r ; B 45 0 412 441 ;  
C 115 ; WX 389 ; N s ; B 16 -13 366 442 ;  
C 116 ; WX 278 ; N t ; B 37 -11 296 546 ;  
C 117 ; WX 500 ; N u ; B 42 -11 475 441 ;  
C 118 ; WX 444 ; N v ; B 21 -18 426 441 ;  
C 119 ; WX 667 ; N w ; B 16 -18 648 441 ;  
C 120 ; WX 444 ; N x ; B -27 -11 447 441 ;  
C 121 ; WX 444 ; N y ; B -24 -206 426 441 ;  
C 122 ; WX 389 ; N z ; B -2 -81 380 428 ;  
C 123 ; WX 400 ; N braceleft ; B 51 -177 407 687 ;  
C 124 ; WX 275 ; N bar ; B 105 -18 171 666 ;  
C 125 ; WX 400 ; N braceright ; B -7 -177 349 687 ;  
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;  
C 161 ; WX 389 ; N exclamdown ; B 59 -205 322 473 ;  
C 162 ; WX 500 ; N cent ; B 77 -143 472 560 ;

C 163 ; WX 500 ; N sterling ; B 10 -6 517 670 ;  
C 164 ; WX 167 ; N fraction ; B -169 -10 337 676 ;  
C 165 ; WX 500 ; N yen ; B 27 0 603 653 ;  
C 166 ; WX 500 ; N florin ; B 25 -182 507 682 ;  
C 167 ; WX 500 ; N section ; B 53 -162 461 666 ;  
C 168 ; WX 500 ; N currency ; B -22 53 522 597 ;  
C 169 ; WX 214 ; N quotesingle ; B 132 421 241 666 ;  
C 170 ; WX 556 ; N quotedblleft ; B 166 436 514 666 ;  
C 171 ; WX 500 ; N guillemotleft ; B 53 37 445 403 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 51 37 281 403 ;  
C 173 ; WX 333 ; N guilsinglright ; B 52 37 282 403 ;  
C 174 ; WX 500 ; N fi ; B -141 -207 481 681 ;  
C 175 ; WX 500 ; N fl ; B -141 -204 518 682 ;  
C 177 ; WX 500 ; N endash ; B -6 197 505 243 ;  
C 178 ; WX 500 ; N dagger ; B 101 -159 488 666 ;  
C 179 ; WX 500 ; N daggerdbl ; B 22 -143 491 666 ;  
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;  
C 182 ; WX 523 ; N paragraph ; B 55 -123 616 653 ;  
C 183 ; WX 350 ; N bullet ; B 40 191 310 461 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 44 -129 183 101 ;  
C 185 ; WX 556 ; N quotedblbase ; B 57 -129 405 101 ;  
C 186 ; WX 556 ; N quotedblright ; B 151 436 499 666 ;  
C 187 ; WX 500 ; N guillemotright ; B 55 37 447 403 ;  
C 188 ; WX 889 ; N ellipsis ; B 57 -11 762 100 ;  
C 189 ; WX 1000 ; N perthousand ; B 25 -19 1010 706 ;  
C 191 ; WX 500 ; N questiondown ; B 28 -205 368 471 ;  
C 193 ; WX 333 ; N grave ; B 121 492 311 664 ;  
C 194 ; WX 333 ; N acute ; B 180 494 403 664 ;  
C 195 ; WX 333 ; N circumflex ; B 91 492 385 661 ;  
C 196 ; WX 333 ; N tilde ; B 100 517 427 624 ;  
C 197 ; WX 333 ; N macron ; B 99 532 411 583 ;  
C 198 ; WX 333 ; N breve ; B 117 492 418 650 ;  
C 199 ; WX 333 ; N dotaccent ; B 207 508 305 606 ;  
C 200 ; WX 333 ; N dieresis ; B 107 508 405 606 ;  
C 202 ; WX 333 ; N ring ; B 155 492 355 691 ;  
C 203 ; WX 333 ; N cedilla ; B -30 -217 182 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 93 494 486 664 ;  
C 206 ; WX 333 ; N ogonek ; B -20 -169 200 40 ;  
C 207 ; WX 333 ; N caron ; B 121 492 426 661 ;  
C 208 ; WX 889 ; N emdash ; B -6 197 894 243 ;  
C 225 ; WX 889 ; N AE ; B -27 0 911 653 ;  
C 227 ; WX 276 ; N ordfeminine ; B 42 406 352 676 ;  
C 232 ; WX 556 ; N Lslash ; B -8 0 559 653 ;  
C 233 ; WX 722 ; N Oslash ; B 60 -105 699 722 ;  
C 234 ; WX 944 ; N OE ; B 49 -8 964 666 ;  
C 235 ; WX 310 ; N ordmasculine ; B 67 406 362 676 ;  
C 241 ; WX 667 ; N ae ; B 23 -11 640 441 ;  
C 245 ; WX 278 ; N dotlessi ; B 49 -11 235 441 ;

C 248 ; WX 278 ; N slash ; B 37 -11 307 683 ;  
C 249 ; WX 500 ; N slash ; B 28 -135 469 554 ;  
C 250 ; WX 667 ; N oe ; B 20 -12 646 441 ;  
C 251 ; WX 500 ; N germandbls ; B -168 -207 493 679 ;  
C -1 ; WX 556 ; N Zcaron ; B -6 0 606 873 ;  
C -1 ; WX 444 ; N ccedilla ; B 26 -217 425 441 ;  
C -1 ; WX 444 ; N ydieresis ; B -24 -206 441 606 ;  
C -1 ; WX 500 ; N tilde ; B 17 -11 511 624 ;  
C -1 ; WX 278 ; N icircumflex ; B 34 -11 328 661 ;  
C -1 ; WX 300 ; N threesuperior ; B 43 268 339 676 ;  
C -1 ; WX 444 ; N ecircumflex ; B 31 -11 441 661 ;  
C -1 ; WX 500 ; N thorn ; B -75 -205 469 683 ;  
C -1 ; WX 444 ; N egrave ; B 31 -11 412 664 ;  
C -1 ; WX 300 ; N twosuperior ; B 33 271 324 676 ;  
C -1 ; WX 444 ; N eacute ; B 31 -11 459 664 ;  
C -1 ; WX 500 ; N tilde ; B 27 -11 496 624 ;  
C -1 ; WX 611 ; N Aacute ; B -51 0 564 876 ;  
C -1 ; WX 500 ; N ocircumflex ; B 27 -11 468 661 ;  
C -1 ; WX 444 ; N yacute ; B -24 -206 459 664 ;  
C -1 ; WX 500 ; N udieresis ; B 42 -11 479 606 ;  
C -1 ; WX 750 ; N threequarters ; B 23 -10 736 676 ;  
C -1 ; WX 500 ; N acircumflex ; B 17 -11 476 661 ;  
C -1 ; WX 722 ; N Eth ; B -8 0 700 653 ;  
C -1 ; WX 444 ; N edieresis ; B 31 -11 451 606 ;  
C -1 ; WX 500 ; N ugrave ; B 42 -11 475 664 ;  
C -1 ; WX 980 ; N trademark ; B 30 247 957 653 ;  
C -1 ; WX 500 ; N ograve ; B 27 -11 468 664 ;  
C -1 ; WX 389 ; N scaron ; B 16 -13 454 661 ;  
C -1 ; WX 333 ; N Idieresis ; B -8 0 435 818 ;  
C -1 ; WX 500 ; N uacute ; B 42 -11 477 664 ;  
C -1 ; WX 500 ; N agrave ; B 17 -11 476 664 ;  
C -1 ; WX 500 ; N tilde ; B 14 -9 476 624 ;  
C -1 ; WX 500 ; N aring ; B 17 -11 476 691 ;  
C -1 ; WX 389 ; N zcaron ; B -2 -81 434 661 ;  
C -1 ; WX 333 ; N Icircumflex ; B -8 0 425 873 ;  
C -1 ; WX 667 ; N Ntilde ; B -20 -15 727 836 ;  
C -1 ; WX 500 ; N ucircumflex ; B 42 -11 475 661 ;  
C -1 ; WX 611 ; N Ecircumflex ; B -1 0 634 873 ;  
C -1 ; WX 333 ; N Iacute ; B -8 0 413 876 ;  
C -1 ; WX 667 ; N Ccedilla ; B 66 -217 689 666 ;  
C -1 ; WX 722 ; N Odieresis ; B 60 -18 699 818 ;  
C -1 ; WX 500 ; N Scaron ; B 17 -18 520 873 ;  
C -1 ; WX 611 ; N Edieresis ; B -1 0 634 818 ;  
C -1 ; WX 333 ; N Igrave ; B -8 0 384 876 ;  
C -1 ; WX 500 ; N adieresis ; B 17 -11 489 606 ;  
C -1 ; WX 722 ; N Ograve ; B 60 -18 699 876 ;  
C -1 ; WX 611 ; N Egrave ; B -1 0 634 876 ;  
C -1 ; WX 556 ; N Ydieresis ; B 78 0 633 818 ;

C -1 ; WX 760 ; N registered ; B 41 -18 719 666 ;  
C -1 ; WX 722 ; N Otilde ; B 60 -18 699 836 ;  
C -1 ; WX 750 ; N onequarter ; B 33 -10 736 676 ;  
C -1 ; WX 722 ; N Ugrave ; B 102 -18 765 876 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 102 -18 765 873 ;  
C -1 ; WX 611 ; N Thorn ; B 0 0 569 653 ;  
C -1 ; WX 675 ; N divide ; B 86 -11 590 517 ;  
C -1 ; WX 611 ; N Atilde ; B -51 0 566 836 ;  
C -1 ; WX 722 ; N Uacute ; B 102 -18 765 876 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 60 -18 699 873 ;  
C -1 ; WX 675 ; N logicalnot ; B 86 108 590 386 ;  
C -1 ; WX 611 ; N Aring ; B -51 0 564 883 ;  
C -1 ; WX 278 ; N idieresis ; B 49 -11 353 606 ;  
C -1 ; WX 278 ; N iacute ; B 49 -11 356 664 ;  
C -1 ; WX 500 ; N aacute ; B 17 -11 487 664 ;  
C -1 ; WX 675 ; N plusminus ; B 86 0 590 506 ;  
C -1 ; WX 675 ; N multiply ; B 93 8 582 497 ;  
C -1 ; WX 722 ; N Udieresis ; B 102 -18 765 818 ;  
C -1 ; WX 675 ; N minus ; B 86 220 590 286 ;  
C -1 ; WX 300 ; N onesuperior ; B 43 271 284 676 ;  
C -1 ; WX 611 ; N Eacute ; B -1 0 634 876 ;  
C -1 ; WX 611 ; N Acircumflex ; B -51 0 564 873 ;  
C -1 ; WX 760 ; N copyright ; B 41 -18 719 666 ;  
C -1 ; WX 611 ; N Agrave ; B -51 0 564 876 ;  
C -1 ; WX 500 ; N odieresis ; B 27 -11 489 606 ;  
C -1 ; WX 500 ; N oacute ; B 27 -11 487 664 ;  
C -1 ; WX 400 ; N degree ; B 101 390 387 676 ;  
C -1 ; WX 278 ; N igrave ; B 49 -11 284 664 ;  
C -1 ; WX 500 ; N mu ; B -30 -209 497 428 ;  
C -1 ; WX 722 ; N Oacute ; B 60 -18 699 876 ;  
C -1 ; WX 500 ; N eth ; B 27 -11 482 683 ;  
C -1 ; WX 611 ; N Adieresis ; B -51 0 564 818 ;  
C -1 ; WX 556 ; N Yacute ; B 78 0 633 876 ;  
C -1 ; WX 275 ; N brokenbar ; B 105 -18 171 666 ;  
C -1 ; WX 750 ; N onehalf ; B 34 -10 749 676 ;

EndCharMetrics

StartKernData

StartKernPairs 283

KPX A y -55

KPX A w -55

KPX A v -55

KPX A u -20

KPX A quoteright -37

KPX A quotedblright 0

KPX A p 0

KPX A Y -55

KPX A W -95

KPX A V -105  
KPX A U -50  
KPX A T -37  
KPX A Q -40  
KPX A O -40  
KPX A G -35  
KPX A C -30

KPX B period 0  
KPX B comma 0  
KPX B U -10  
KPX B A -25

KPX D period 0  
KPX D comma 0  
KPX D Y -40  
KPX D W -40  
KPX D V -40  
KPX D A -35

KPX F r -55  
KPX F period -135  
KPX F o -105  
KPX F i -45  
KPX F e -75  
KPX F comma -135  
KPX F a -75  
KPX F A -115

KPX G period 0  
KPX G comma 0

KPX J u -35  
KPX J period -25  
KPX J o -25  
KPX J e -25  
KPX J comma -25  
KPX J a -35  
KPX J A -40

KPX K y -40  
KPX K u -40  
KPX K o -40  
KPX K e -35  
KPX K O -50

KPX L y -30  
KPX L quoteright -37

KPX L quotedblright 0  
KPX L Y -20  
KPX L W -55  
KPX L V -55  
KPX L T -20

KPX N period 0  
KPX N comma 0  
KPX N A -27

KPX O period 0  
KPX O comma 0  
KPX O Y -50  
KPX O X -40  
KPX O W -50  
KPX O V -50  
KPX O T -40  
KPX O A -55

KPX P period -135  
KPX P o -80  
KPX P e -80  
KPX P comma -135  
KPX P a -80  
KPX P A -90

KPX Q period 0  
KPX Q comma 0  
KPX Q U -10

KPX R Y -18  
KPX R W -18  
KPX R V -18  
KPX R U -40  
KPX R T 0  
KPX R O -40

KPX S period 0  
KPX S comma 0

KPX T y -74  
KPX T w -74  
KPX T u -55  
KPX T semicolon -65  
KPX T r -55  
KPX T period -74  
KPX T o -92  
KPX T i -55

KPX T hyphen -74  
KPX T h 0  
KPX T e -92  
KPX T comma -74  
KPX T colon -55  
KPX T a -92  
KPX T O -18  
KPX T A -50

KPX U period -25  
KPX U comma -25  
KPX U A -40

KPX V u -74  
KPX V semicolon -74  
KPX V period -129  
KPX V o -111  
KPX V i -74  
KPX V hyphen -55  
KPX V e -111  
KPX V comma -129  
KPX V colon -65  
KPX V a -111  
KPX V O -30  
KPX V G 0  
KPX V A -60

KPX W y -70  
KPX W u -55  
KPX W semicolon -65  
KPX W period -92  
KPX W o -92  
KPX W i -55  
KPX W hyphen -37  
KPX W h 0  
KPX W e -92  
KPX W comma -92  
KPX W colon -65  
KPX W a -92  
KPX W O -25  
KPX W A -60

KPX Y u -92  
KPX Y semicolon -65  
KPX Y period -92  
KPX Y o -92  
KPX Y i -74  
KPX Y hyphen -74



KPX Y e -92  
KPX Y comma -92  
KPX Y colon -65  
KPX Y a -92  
KPX Y O -15  
KPX Y A -50

KPX a y 0  
KPX a w 0  
KPX a v 0  
KPX a t 0  
KPX a p 0  
KPX a g -10  
KPX a b 0

KPX b y 0  
KPX b v 0  
KPX b u -20  
KPX b period -40  
KPX b l 0  
KPX b comma 0  
KPX b b 0

KPX c y 0  
KPX c period 0  
KPX c l 0  
KPX c k -20  
KPX c h -15  
KPX c comma 0

KPX colon space 0

KPX comma space 0  
KPX comma quoteright -140  
KPX comma quotedblright -140

KPX d y 0  
KPX d w 0  
KPX d v 0  
KPX d period 0  
KPX d d 0  
KPX d comma 0

KPX e y -30  
KPX e x -20  
KPX e w -15  
KPX e v -15  
KPX e period -15

KPX e p 0  
KPX e g -40  
KPX e comma -10  
KPX e b 0

KPX f quoteright 92  
KPX f quotedblright 0  
KPX f period -15  
KPX f o 0  
KPX f l 0  
KPX f i -20  
KPX f f -18  
KPX f e 0  
KPX f dotlessi -60  
KPX f comma -10  
KPX f a 0

KPX g y 0  
KPX g r 0  
KPX g period -15  
KPX g o 0  
KPX g i 0  
KPX g g -10  
KPX g e -10  
KPX g comma -10  
KPX g a 0

KPX h y 0

KPX i v 0

KPX k y -10  
KPX k o -10  
KPX k e -10

KPX l y 0  
KPX l w 0

KPX m y 0  
KPX m u 0

KPX n y 0  
KPX n v -40  
KPX n u 0

KPX o y 0  
KPX o x 0  
KPX o w 0

KPX o v -10

KPX o g -10

KPX p y 0

KPX period quoteright -140

KPX period quotedblright -140

KPX quotedblleft quoteleft 0

KPX quotedblleft A 0

KPX quotedblright space 0

KPX quoteleft quoteleft -111

KPX quoteleft A 0

KPX quoteright v -10

KPX quoteright t -30

KPX quoteright space -111

KPX quoteright s -40

KPX quoteright r -25

KPX quoteright quoteright -111

KPX quoteright quotedblright 0

KPX quoteright l 0

KPX quoteright d -25

KPX r y 0

KPX r v 0

KPX r u 0

KPX r t 0

KPX r s -10

KPX r r 0

KPX r q -37

KPX r period -111

KPX r p 0

KPX r o -45

KPX r n 0

KPX r m 0

KPX r l 0

KPX r k 0

KPX r i 0

KPX r hyphen -20

KPX r g -37

KPX r e -37

KPX r d -37

KPX r comma -111

KPX r c -37

KPX r a -15

KPX s w 0

KPX space quoteleft 0

KPX space quotedblleft 0

KPX space Y -75

KPX space W -40

KPX space V -35

KPX space T -18

KPX space A -18

KPX v period -74

KPX v o 0

KPX v e 0

KPX v comma -74

KPX v a 0

KPX w period -74

KPX w o 0

KPX w h 0

KPX w e 0

KPX w comma -74

KPX w a 0

KPX x e 0

KPX y period -55

KPX y o 0

KPX y e 0

KPX y comma -55

KPX y a 0

KPX z o 0

KPX z e 0

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 139 212 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 144 212 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 139 212 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave 149 212 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 129 192 ;

CC Atilde 2 ; PCC A 0 0 ; PCC tilde 139 212 ;

CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 149 212 ;

CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 169 212 ;

CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 159 212 ;

CC Egrave 2 ; PCC E 0 0 ; PCC grave 149 212 ;

CC Iacute 2 ; PCC I 0 0 ; PCC acute 10 212 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 40 212 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 30 212 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 10 212 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 177 212 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 195 212 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 230 212 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 230 212 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 205 212 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 212 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 94 212 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 212 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 215 212 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 225 212 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 215 212 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 132 212 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 142 212 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 112 212 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 84 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 84 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 84 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 84 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 46 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 56 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -47 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -57 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -52 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 49 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 74 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 69 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 28 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 74 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 74 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 74 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 84 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 56 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 36 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 8 0 ;  
EndComposites

EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1989, 1990, 1991, Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Tue Sep 17 14:02:41 1991  
Comment UniqueID 36384  
Comment VMusage 31992 40360  
FontName Courier-Bold  
FullName Courier Bold  
FamilyName Courier  
Weight Bold  
ItalicAngle 0  
IsFixedPitch true  
FontBBox -113 -250 749 801  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.004  
Notice Copyright (c) 1989, 1990, 1991, Adobe Systems Incorporated. All rights reserved.  
EncodingScheme AdobeStandardEncoding  
CapHeight 562  
XHeight 439  
Ascender 626  
Descender -142  
StartCharMetrics 260  
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 600 ; N exclam ; B 202 -15 398 572 ;  
C 34 ; WX 600 ; N quotedbl ; B 135 277 465 562 ;  
C 35 ; WX 600 ; N numbersign ; B 56 -45 544 651 ;  
C 36 ; WX 600 ; N dollar ; B 82 -126 519 666 ;  
C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;  
C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;  
C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;  
C 40 ; WX 600 ; N parenleft ; B 219 -102 461 616 ;  
C 41 ; WX 600 ; N parenright ; B 139 -102 381 616 ;  
C 42 ; WX 600 ; N asterisk ; B 91 219 509 601 ;  
C 43 ; WX 600 ; N plus ; B 71 39 529 478 ;  
C 44 ; WX 600 ; N comma ; B 123 -111 393 174 ;  
C 45 ; WX 600 ; N hyphen ; B 100 203 500 313 ;  
C 46 ; WX 600 ; N period ; B 192 -15 408 171 ;  
C 47 ; WX 600 ; N slash ; B 98 -77 502 626 ;  
C 48 ; WX 600 ; N zero ; B 87 -15 513 616 ;  
C 49 ; WX 600 ; N one ; B 81 0 539 616 ;  
C 50 ; WX 600 ; N two ; B 61 0 499 616 ;  
C 51 ; WX 600 ; N three ; B 63 -15 501 616 ;  
C 52 ; WX 600 ; N four ; B 53 0 507 616 ;  
C 53 ; WX 600 ; N five ; B 70 -15 521 601 ;  
C 54 ; WX 600 ; N six ; B 90 -15 521 616 ;  
C 55 ; WX 600 ; N seven ; B 55 0 494 601 ;  
C 56 ; WX 600 ; N eight ; B 83 -15 517 616 ;

C 57 ; WX 600 ; N nine ; B 79 -15 510 616 ;  
C 58 ; WX 600 ; N colon ; B 191 -15 407 425 ;  
C 59 ; WX 600 ; N semicolon ; B 123 -111 408 425 ;  
C 60 ; WX 600 ; N less ; B 66 15 523 501 ;  
C 61 ; WX 600 ; N equal ; B 71 118 529 398 ;  
C 62 ; WX 600 ; N greater ; B 77 15 534 501 ;  
C 63 ; WX 600 ; N question ; B 98 -14 501 580 ;  
C 64 ; WX 600 ; N at ; B 16 -15 584 616 ;  
C 65 ; WX 600 ; N A ; B -9 0 609 562 ;  
C 66 ; WX 600 ; N B ; B 30 0 573 562 ;  
C 67 ; WX 600 ; N C ; B 22 -18 560 580 ;  
C 68 ; WX 600 ; N D ; B 30 0 594 562 ;  
C 69 ; WX 600 ; N E ; B 25 0 560 562 ;  
C 70 ; WX 600 ; N F ; B 39 0 570 562 ;  
C 71 ; WX 600 ; N G ; B 22 -18 594 580 ;  
C 72 ; WX 600 ; N H ; B 20 0 580 562 ;  
C 73 ; WX 600 ; N I ; B 77 0 523 562 ;  
C 74 ; WX 600 ; N J ; B 37 -18 601 562 ;  
C 75 ; WX 600 ; N K ; B 21 0 599 562 ;  
C 76 ; WX 600 ; N L ; B 39 0 578 562 ;  
C 77 ; WX 600 ; N M ; B -2 0 602 562 ;  
C 78 ; WX 600 ; N N ; B 8 -12 610 562 ;  
C 79 ; WX 600 ; N O ; B 22 -18 578 580 ;  
C 80 ; WX 600 ; N P ; B 48 0 559 562 ;  
C 81 ; WX 600 ; N Q ; B 32 -138 578 580 ;  
C 82 ; WX 600 ; N R ; B 24 0 599 562 ;  
C 83 ; WX 600 ; N S ; B 47 -22 553 582 ;  
C 84 ; WX 600 ; N T ; B 21 0 579 562 ;  
C 85 ; WX 600 ; N U ; B 4 -18 596 562 ;  
C 86 ; WX 600 ; N V ; B -13 0 613 562 ;  
C 87 ; WX 600 ; N W ; B -18 0 618 562 ;  
C 88 ; WX 600 ; N X ; B 12 0 588 562 ;  
C 89 ; WX 600 ; N Y ; B 12 0 589 562 ;  
C 90 ; WX 600 ; N Z ; B 62 0 539 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 245 -102 475 616 ;  
C 92 ; WX 600 ; N backslash ; B 99 -77 503 626 ;  
C 93 ; WX 600 ; N bracketright ; B 125 -102 355 616 ;  
C 94 ; WX 600 ; N asciicircum ; B 108 250 492 616 ;  
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 178 277 428 562 ;  
C 97 ; WX 600 ; N a ; B 35 -15 570 454 ;  
C 98 ; WX 600 ; N b ; B 0 -15 584 626 ;  
C 99 ; WX 600 ; N c ; B 40 -15 545 459 ;  
C 100 ; WX 600 ; N d ; B 20 -15 591 626 ;  
C 101 ; WX 600 ; N e ; B 40 -15 563 454 ;  
C 102 ; WX 600 ; N f ; B 83 0 547 626 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 30 -146 580 454 ;  
C 104 ; WX 600 ; N h ; B 5 0 592 626 ;

C 105 ; WX 600 ; N i ; B 77 0 523 658 ;  
C 106 ; WX 600 ; N j ; B 63 -146 440 658 ;  
C 107 ; WX 600 ; N k ; B 20 0 585 626 ;  
C 108 ; WX 600 ; N l ; B 77 0 523 626 ;  
C 109 ; WX 600 ; N m ; B -22 0 626 454 ;  
C 110 ; WX 600 ; N n ; B 18 0 592 454 ;  
C 111 ; WX 600 ; N o ; B 30 -15 570 454 ;  
C 112 ; WX 600 ; N p ; B -1 -142 570 454 ;  
C 113 ; WX 600 ; N q ; B 20 -142 591 454 ;  
C 114 ; WX 600 ; N r ; B 47 0 580 454 ;  
C 115 ; WX 600 ; N s ; B 68 -17 535 459 ;  
C 116 ; WX 600 ; N t ; B 47 -15 532 562 ;  
C 117 ; WX 600 ; N u ; B -1 -15 569 439 ;  
C 118 ; WX 600 ; N v ; B -1 0 601 439 ;  
C 119 ; WX 600 ; N w ; B -18 0 618 439 ;  
C 120 ; WX 600 ; N x ; B 6 0 594 439 ;  
C 121 ; WX 600 ; N y ; B -4 -142 601 439 ;  
C 122 ; WX 600 ; N z ; B 81 0 520 439 ;  
C 123 ; WX 600 ; N braceleft ; B 160 -102 464 616 ;  
C 124 ; WX 600 ; N bar ; B 255 -250 345 750 ;  
C 125 ; WX 600 ; N braceright ; B 136 -102 440 616 ;  
C 126 ; WX 600 ; N asciitilde ; B 71 153 530 356 ;  
C 161 ; WX 600 ; N exclamdown ; B 202 -146 398 449 ;  
C 162 ; WX 600 ; N cent ; B 66 -49 518 614 ;  
C 163 ; WX 600 ; N sterling ; B 72 -28 558 611 ;  
C 164 ; WX 600 ; N fraction ; B 25 -60 576 661 ;  
C 165 ; WX 600 ; N yen ; B 10 0 590 562 ;  
C 166 ; WX 600 ; N florin ; B -30 -131 572 616 ;  
C 167 ; WX 600 ; N section ; B 83 -70 517 580 ;  
C 168 ; WX 600 ; N currency ; B 54 49 546 517 ;  
C 169 ; WX 600 ; N quotesingle ; B 227 277 373 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 71 277 535 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 8 70 553 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 141 70 459 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 141 70 459 446 ;  
C 174 ; WX 600 ; N fi ; B 12 0 593 626 ;  
C 175 ; WX 600 ; N fl ; B 12 0 593 626 ;  
C 177 ; WX 600 ; N endash ; B 65 203 535 313 ;  
C 178 ; WX 600 ; N dagger ; B 106 -70 494 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 106 -70 494 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 196 165 404 351 ;  
C 182 ; WX 600 ; N paragraph ; B 6 -70 576 580 ;  
C 183 ; WX 600 ; N bullet ; B 140 132 460 430 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 175 -142 427 143 ;  
C 185 ; WX 600 ; N quotedblbase ; B 65 -142 529 143 ;  
C 186 ; WX 600 ; N quotedblright ; B 61 277 525 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 47 70 592 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 26 -15 574 116 ;



C 189 ; WX 600 ; N perthousand ; B -113 -15 713 616 ;  
C 191 ; WX 600 ; N questiondown ; B 99 -146 502 449 ;  
C 193 ; WX 600 ; N grave ; B 132 508 395 661 ;  
C 194 ; WX 600 ; N acute ; B 205 508 468 661 ;  
C 195 ; WX 600 ; N circumflex ; B 103 483 497 657 ;  
C 196 ; WX 600 ; N tilde ; B 89 493 512 636 ;  
C 197 ; WX 600 ; N macron ; B 88 505 512 585 ;  
C 198 ; WX 600 ; N breve ; B 83 468 517 631 ;  
C 199 ; WX 600 ; N dotaccent ; B 230 485 370 625 ;  
C 200 ; WX 600 ; N dieresis ; B 128 485 472 625 ;  
C 202 ; WX 600 ; N ring ; B 198 481 402 678 ;  
C 203 ; WX 600 ; N cedilla ; B 205 -206 387 0 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 68 488 588 661 ;  
C 206 ; WX 600 ; N ogonek ; B 169 -199 367 0 ;  
C 207 ; WX 600 ; N caron ; B 103 493 497 667 ;  
C 208 ; WX 600 ; N emdash ; B -10 203 610 313 ;  
C 225 ; WX 600 ; N AE ; B -29 0 602 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 147 196 453 580 ;  
C 232 ; WX 600 ; N Lslash ; B 39 0 578 562 ;  
C 233 ; WX 600 ; N Oslash ; B 22 -22 578 584 ;  
C 234 ; WX 600 ; N OE ; B -25 0 595 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 147 196 453 580 ;  
C 241 ; WX 600 ; N ae ; B -4 -15 601 454 ;  
C 245 ; WX 600 ; N dotlessi ; B 77 0 523 439 ;  
C 248 ; WX 600 ; N lslash ; B 77 0 523 626 ;  
C 249 ; WX 600 ; N oslash ; B 30 -24 570 463 ;  
C 250 ; WX 600 ; N oe ; B -18 -15 611 454 ;  
C 251 ; WX 600 ; N germandbls ; B 22 -15 596 626 ;  
C -1 ; WX 600 ; N Odieresis ; B 22 -18 578 748 ;  
C -1 ; WX 600 ; N logicalnot ; B 71 103 529 413 ;  
C -1 ; WX 600 ; N minus ; B 71 203 529 313 ;  
C -1 ; WX 600 ; N merge ; B 137 -15 464 487 ;  
C -1 ; WX 600 ; N degree ; B 86 243 474 616 ;  
C -1 ; WX 600 ; N dectab ; B 8 0 592 320 ;  
C -1 ; WX 600 ; N ll ; B -12 0 600 626 ;  
C -1 ; WX 600 ; N IJ ; B -8 -18 622 562 ;  
C -1 ; WX 600 ; N Eacute ; B 25 0 560 784 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 22 -18 578 780 ;  
C -1 ; WX 600 ; N ucircumflex ; B -1 -15 569 657 ;  
C -1 ; WX 600 ; N left ; B 65 44 535 371 ;  
C -1 ; WX 600 ; N threesuperior ; B 138 222 433 616 ;  
C -1 ; WX 600 ; N up ; B 136 0 463 447 ;  
C -1 ; WX 600 ; N multiply ; B 81 39 520 478 ;  
C -1 ; WX 600 ; N Scaron ; B 47 -22 553 790 ;  
C -1 ; WX 600 ; N tab ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 4 -18 596 780 ;  
C -1 ; WX 600 ; N divide ; B 71 16 529 500 ;  
C -1 ; WX 600 ; N Acircumflex ; B -9 0 609 780 ;

C -1 ; WX 600 ; N eacute ; B 40 -15 563 661 ;  
C -1 ; WX 600 ; N uacute ; B -1 -15 569 661 ;  
C -1 ; WX 600 ; N Aacute ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N twosuperior ; B 143 230 436 616 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 25 0 560 780 ;  
C -1 ; WX 600 ; N tilde ; B 18 0 592 636 ;  
C -1 ; WX 600 ; N down ; B 137 -15 464 439 ;  
C -1 ; WX 600 ; N center ; B 40 14 560 580 ;  
C -1 ; WX 600 ; N onesuperior ; B 153 230 447 616 ;  
C -1 ; WX 600 ; N ij ; B 6 -146 574 658 ;  
C -1 ; WX 600 ; N edieresis ; B 40 -15 563 625 ;  
C -1 ; WX 600 ; N graybox ; B 76 0 525 599 ;  
C -1 ; WX 600 ; N odieresis ; B 30 -15 570 625 ;  
C -1 ; WX 600 ; N Ograve ; B 22 -18 578 784 ;  
C -1 ; WX 600 ; N threequarters ; B -47 -60 648 661 ;  
C -1 ; WX 600 ; N plusminus ; B 71 24 529 515 ;  
C -1 ; WX 600 ; N prescription ; B 24 -15 599 562 ;  
C -1 ; WX 600 ; N eth ; B 58 -27 543 626 ;  
C -1 ; WX 600 ; N largebullet ; B 248 229 352 333 ;  
C -1 ; WX 600 ; N egrave ; B 40 -15 563 661 ;  
C -1 ; WX 600 ; N ccedilla ; B 40 -206 545 459 ;  
C -1 ; WX 600 ; N notgraphic ; B 77 -15 523 572 ;  
C -1 ; WX 600 ; N Udieresis ; B 4 -18 596 748 ;  
C -1 ; WX 600 ; N Gcaron ; B 22 -18 594 790 ;  
C -1 ; WX 600 ; N arrowdown ; B 144 -15 456 608 ;  
C -1 ; WX 600 ; N format ; B 5 -146 115 601 ;  
C -1 ; WX 600 ; N Otilde ; B 22 -18 578 759 ;  
C -1 ; WX 600 ; N Idieresis ; B 77 0 523 748 ;  
C -1 ; WX 600 ; N adieresis ; B 35 -15 570 625 ;  
C -1 ; WX 600 ; N ecircumflex ; B 40 -15 563 657 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 594 562 ;  
C -1 ; WX 600 ; N onequarter ; B -56 -60 656 661 ;  
C -1 ; WX 600 ; N LL ; B -45 0 645 562 ;  
C -1 ; WX 600 ; N agrave ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N Zcaron ; B 62 0 539 790 ;  
C -1 ; WX 600 ; N Scedilla ; B 47 -206 553 582 ;  
C -1 ; WX 600 ; N Idot ; B 77 0 523 748 ;  
C -1 ; WX 600 ; N Iacute ; B 77 0 523 784 ;  
C -1 ; WX 600 ; N indent ; B 65 45 535 372 ;  
C -1 ; WX 600 ; N Ugrave ; B 4 -18 596 784 ;  
C -1 ; WX 600 ; N scaron ; B 68 -17 535 667 ;  
C -1 ; WX 600 ; N overscore ; B 0 579 600 629 ;  
C -1 ; WX 600 ; N Aring ; B -9 0 609 801 ;  
C -1 ; WX 600 ; N Ccedilla ; B 22 -206 560 580 ;  
C -1 ; WX 600 ; N Igrave ; B 77 0 523 784 ;  
C -1 ; WX 600 ; N brokenbar ; B 255 -175 345 675 ;  
C -1 ; WX 600 ; N Oacute ; B 22 -18 578 784 ;

C -1 ; WX 600 ; N otilde ; B 30 -15 570 636 ;  
C -1 ; WX 600 ; N Yacute ; B 12 0 589 784 ;  
C -1 ; WX 600 ; N lira ; B 72 -28 558 611 ;  
C -1 ; WX 600 ; N Icircumflex ; B 77 0 523 780 ;  
C -1 ; WX 600 ; N Atilde ; B -9 0 609 759 ;  
C -1 ; WX 600 ; N Uacute ; B 4 -18 596 784 ;  
C -1 ; WX 600 ; N Ydieresis ; B 12 0 589 748 ;  
C -1 ; WX 600 ; N ydieresis ; B -4 -142 601 625 ;  
C -1 ; WX 600 ; N idieresis ; B 77 0 523 625 ;  
C -1 ; WX 600 ; N Adieresis ; B -9 0 609 748 ;  
C -1 ; WX 600 ; N mu ; B -1 -142 569 439 ;  
C -1 ; WX 600 ; N trademark ; B -9 230 749 562 ;  
C -1 ; WX 600 ; N oacute ; B 30 -15 570 661 ;  
C -1 ; WX 600 ; N acircumflex ; B 35 -15 570 657 ;  
C -1 ; WX 600 ; N Agrave ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N return ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N atilde ; B 35 -15 570 636 ;  
C -1 ; WX 600 ; N square ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N registered ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N stop ; B 19 0 581 562 ;  
C -1 ; WX 600 ; N udieresis ; B -1 -15 569 625 ;  
C -1 ; WX 600 ; N arrowup ; B 144 3 456 626 ;  
C -1 ; WX 600 ; N igrave ; B 77 0 523 661 ;  
C -1 ; WX 600 ; N Edieresis ; B 25 0 560 748 ;  
C -1 ; WX 600 ; N zcaron ; B 81 0 520 667 ;  
C -1 ; WX 600 ; N arrowboth ; B -24 143 624 455 ;  
C -1 ; WX 600 ; N gcaron ; B 30 -146 580 667 ;  
C -1 ; WX 600 ; N arrowleft ; B -24 143 634 455 ;  
C -1 ; WX 600 ; N aacute ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N ocircumflex ; B 30 -15 570 657 ;  
C -1 ; WX 600 ; N scedilla ; B 68 -206 535 459 ;  
C -1 ; WX 600 ; N ograve ; B 30 -15 570 661 ;  
C -1 ; WX 600 ; N onehalf ; B -47 -60 648 661 ;  
C -1 ; WX 600 ; N ugrave ; B -1 -15 569 661 ;  
C -1 ; WX 600 ; N Ntilde ; B 8 -12 610 759 ;  
C -1 ; WX 600 ; N iacute ; B 77 0 523 661 ;  
C -1 ; WX 600 ; N arrowright ; B -34 143 624 455 ;  
C -1 ; WX 600 ; N Thorn ; B 48 0 557 562 ;  
C -1 ; WX 600 ; N Egrave ; B 25 0 560 784 ;  
C -1 ; WX 600 ; N thorn ; B -14 -142 570 626 ;  
C -1 ; WX 600 ; N aring ; B 35 -15 570 678 ;  
C -1 ; WX 600 ; N yacute ; B -4 -142 601 661 ;  
C -1 ; WX 600 ; N icircumflex ; B 63 0 523 657 ;  
EndCharMetrics  
StartComposites 58  
CC Aacute 2 ; PCC A 0 0 ; PCC acute 30 123 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex -30 123 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis -20 123 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave -50 123 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring -10 123 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde -30 123 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 30 123 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 0 123 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 0 123 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 0 123 ;  
CC Gcaron 2 ; PCC G 0 0 ; PCC caron 10 123 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 123 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 0 123 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 0 123 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 123 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 0 123 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 0 123 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 0 123 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 0 123 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 0 123 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 0 123 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 0 123 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 30 123 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 0 123 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 0 123 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave -30 123 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 30 123 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 0 123 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 0 123 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex -20 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis -10 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave -30 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 0 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 0 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 0 0 ;  
CC gcaron 2 ; PCC g 0 0 ; PCC caron -40 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -40 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -40 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 0 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 0 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 0 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 0 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 0 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 0 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 0 0 ;

CC uacute 2 ; PCC u 0 0 ; PCC acute 0 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -20 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis -20 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 30 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 10 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 0 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1989, 1990, 1991 Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Tue Sep 17 09:42:19 1991  
Comment UniqueID 36350  
Comment VMusage 9174 52297  
FontName Courier-Oblique  
FullName Courier Oblique  
FamilyName Courier  
Weight Medium  
ItalicAngle -12  
IsFixedPitch true  
FontBBox -28 -250 742 805  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.004  
Notice Copyright (c) 1989, 1990, 1991 Adobe Systems Incorporated. All rights reserved.  
EncodingScheme AdobeStandardEncoding  
CapHeight 562  
XHeight 426  
Ascender 629  
Descender -157  
StartCharMetrics 260  
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 600 ; N exclam ; B 243 -15 464 572 ;  
C 34 ; WX 600 ; N quotedbl ; B 273 328 532 562 ;  
C 35 ; WX 600 ; N numbersign ; B 133 -32 596 639 ;  
C 36 ; WX 600 ; N dollar ; B 108 -126 596 662 ;  
C 37 ; WX 600 ; N percent ; B 134 -15 599 622 ;  
C 38 ; WX 600 ; N ampersand ; B 87 -15 580 543 ;  
C 39 ; WX 600 ; N quoteright ; B 283 328 495 562 ;  
C 40 ; WX 600 ; N parenleft ; B 313 -108 572 622 ;  
C 41 ; WX 600 ; N parenright ; B 137 -108 396 622 ;  
C 42 ; WX 600 ; N asterisk ; B 212 257 580 607 ;  
C 43 ; WX 600 ; N plus ; B 129 44 580 470 ;  
C 44 ; WX 600 ; N comma ; B 157 -112 370 122 ;  
C 45 ; WX 600 ; N hyphen ; B 152 231 558 285 ;  
C 46 ; WX 600 ; N period ; B 238 -15 382 109 ;  
C 47 ; WX 600 ; N slash ; B 112 -80 604 629 ;  
C 48 ; WX 600 ; N zero ; B 154 -15 575 622 ;

C 49 ; WX 600 ; N one ; B 98 0 515 622 ;  
C 50 ; WX 600 ; N two ; B 70 0 568 622 ;  
C 51 ; WX 600 ; N three ; B 82 -15 538 622 ;  
C 52 ; WX 600 ; N four ; B 108 0 541 622 ;  
C 53 ; WX 600 ; N five ; B 99 -15 589 607 ;  
C 54 ; WX 600 ; N six ; B 155 -15 629 622 ;  
C 55 ; WX 600 ; N seven ; B 182 0 612 607 ;  
C 56 ; WX 600 ; N eight ; B 132 -15 588 622 ;  
C 57 ; WX 600 ; N nine ; B 93 -15 574 622 ;  
C 58 ; WX 600 ; N colon ; B 238 -15 441 385 ;  
C 59 ; WX 600 ; N semicolon ; B 157 -112 441 385 ;  
C 60 ; WX 600 ; N less ; B 96 42 610 472 ;  
C 61 ; WX 600 ; N equal ; B 109 138 600 376 ;  
C 62 ; WX 600 ; N greater ; B 85 42 599 472 ;  
C 63 ; WX 600 ; N question ; B 222 -15 583 572 ;  
C 64 ; WX 600 ; N at ; B 127 -15 582 622 ;  
C 65 ; WX 600 ; N A ; B 3 0 607 562 ;  
C 66 ; WX 600 ; N B ; B 43 0 616 562 ;  
C 67 ; WX 600 ; N C ; B 93 -18 655 580 ;  
C 68 ; WX 600 ; N D ; B 43 0 645 562 ;  
C 69 ; WX 600 ; N E ; B 53 0 660 562 ;  
C 70 ; WX 600 ; N F ; B 53 0 660 562 ;  
C 71 ; WX 600 ; N G ; B 83 -18 645 580 ;  
C 72 ; WX 600 ; N H ; B 32 0 687 562 ;  
C 73 ; WX 600 ; N I ; B 96 0 623 562 ;  
C 74 ; WX 600 ; N J ; B 52 -18 685 562 ;  
C 75 ; WX 600 ; N K ; B 38 0 671 562 ;  
C 76 ; WX 600 ; N L ; B 47 0 607 562 ;  
C 77 ; WX 600 ; N M ; B 4 0 715 562 ;  
C 78 ; WX 600 ; N N ; B 7 -13 712 562 ;  
C 79 ; WX 600 ; N O ; B 94 -18 625 580 ;  
C 80 ; WX 600 ; N P ; B 79 0 644 562 ;  
C 81 ; WX 600 ; N Q ; B 95 -138 625 580 ;  
C 82 ; WX 600 ; N R ; B 38 0 598 562 ;  
C 83 ; WX 600 ; N S ; B 76 -20 650 580 ;  
C 84 ; WX 600 ; N T ; B 108 0 665 562 ;  
C 85 ; WX 600 ; N U ; B 125 -18 702 562 ;  
C 86 ; WX 600 ; N V ; B 105 -13 723 562 ;  
C 87 ; WX 600 ; N W ; B 106 -13 722 562 ;  
C 88 ; WX 600 ; N X ; B 23 0 675 562 ;  
C 89 ; WX 600 ; N Y ; B 133 0 695 562 ;  
C 90 ; WX 600 ; N Z ; B 86 0 610 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 246 -108 574 622 ;  
C 92 ; WX 600 ; N backslash ; B 249 -80 468 629 ;  
C 93 ; WX 600 ; N bracketright ; B 135 -108 463 622 ;  
C 94 ; WX 600 ; N asciicircum ; B 175 354 587 622 ;  
C 95 ; WX 600 ; N underscore ; B -27 -125 584 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 343 328 457 562 ;

C 97 ; WX 600 ; N a ; B 76 -15 569 441 ;  
C 98 ; WX 600 ; N b ; B 29 -15 625 629 ;  
C 99 ; WX 600 ; N c ; B 106 -15 608 441 ;  
C 100 ; WX 600 ; N d ; B 85 -15 640 629 ;  
C 101 ; WX 600 ; N e ; B 106 -15 598 441 ;  
C 102 ; WX 600 ; N f ; B 114 0 662 629 ; L i f i ; L l f l ;  
C 103 ; WX 600 ; N g ; B 61 -157 657 441 ;  
C 104 ; WX 600 ; N h ; B 33 0 592 629 ;  
C 105 ; WX 600 ; N i ; B 95 0 515 657 ;  
C 106 ; WX 600 ; N j ; B 52 -157 550 657 ;  
C 107 ; WX 600 ; N k ; B 58 0 633 629 ;  
C 108 ; WX 600 ; N l ; B 95 0 515 629 ;  
C 109 ; WX 600 ; N m ; B -5 0 615 441 ;  
C 110 ; WX 600 ; N n ; B 26 0 585 441 ;  
C 111 ; WX 600 ; N o ; B 102 -15 588 441 ;  
C 112 ; WX 600 ; N p ; B -24 -157 605 441 ;  
C 113 ; WX 600 ; N q ; B 85 -157 682 441 ;  
C 114 ; WX 600 ; N r ; B 60 0 636 441 ;  
C 115 ; WX 600 ; N s ; B 78 -15 584 441 ;  
C 116 ; WX 600 ; N t ; B 167 -15 561 561 ;  
C 117 ; WX 600 ; N u ; B 101 -15 572 426 ;  
C 118 ; WX 600 ; N v ; B 90 -10 681 426 ;  
C 119 ; WX 600 ; N w ; B 76 -10 695 426 ;  
C 120 ; WX 600 ; N x ; B 20 0 655 426 ;  
C 121 ; WX 600 ; N y ; B -4 -157 683 426 ;  
C 122 ; WX 600 ; N z ; B 99 0 593 426 ;  
C 123 ; WX 600 ; N braceleft ; B 233 -108 569 622 ;  
C 124 ; WX 600 ; N bar ; B 222 -250 485 750 ;  
C 125 ; WX 600 ; N braceright ; B 140 -108 477 622 ;  
C 126 ; WX 600 ; N asciitilde ; B 116 197 600 320 ;  
C 161 ; WX 600 ; N exclamdown ; B 225 -157 445 430 ;  
C 162 ; WX 600 ; N cent ; B 151 -49 588 614 ;  
C 163 ; WX 600 ; N sterling ; B 124 -21 621 611 ;  
C 164 ; WX 600 ; N fraction ; B 84 -57 646 665 ;  
C 165 ; WX 600 ; N yen ; B 120 0 693 562 ;  
C 166 ; WX 600 ; N florin ; B -26 -143 671 622 ;  
C 167 ; WX 600 ; N section ; B 104 -78 590 580 ;  
C 168 ; WX 600 ; N currency ; B 94 58 628 506 ;  
C 169 ; WX 600 ; N quotesingle ; B 345 328 460 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 262 328 541 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 92 70 652 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 204 70 540 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 170 70 506 446 ;  
C 174 ; WX 600 ; N fi ; B 3 0 619 629 ;  
C 175 ; WX 600 ; N fl ; B 3 0 619 629 ;  
C 177 ; WX 600 ; N endash ; B 124 231 586 285 ;  
C 178 ; WX 600 ; N dagger ; B 217 -78 546 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 163 -78 546 580 ;

C 180 ; WX 600 ; N periodcentered ; B 275 189 434 327 ;  
C 182 ; WX 600 ; N paragraph ; B 100 -78 630 562 ;  
C 183 ; WX 600 ; N bullet ; B 224 130 485 383 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 185 -134 397 100 ;  
C 185 ; WX 600 ; N quotedblbase ; B 115 -134 478 100 ;  
C 186 ; WX 600 ; N quotedblright ; B 213 328 576 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 58 70 618 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 46 -15 575 111 ;  
C 189 ; WX 600 ; N perthousand ; B 59 -15 627 622 ;  
C 191 ; WX 600 ; N questiondown ; B 105 -157 466 430 ;  
C 193 ; WX 600 ; N grave ; B 294 497 484 672 ;  
C 194 ; WX 600 ; N acute ; B 348 497 612 672 ;  
C 195 ; WX 600 ; N circumflex ; B 229 477 581 654 ;  
C 196 ; WX 600 ; N tilde ; B 212 489 629 606 ;  
C 197 ; WX 600 ; N macron ; B 232 525 600 565 ;  
C 198 ; WX 600 ; N breve ; B 279 501 576 609 ;  
C 199 ; WX 600 ; N dotaccent ; B 360 477 466 580 ;  
C 200 ; WX 600 ; N dieresis ; B 262 492 570 595 ;  
C 202 ; WX 600 ; N ring ; B 332 463 500 627 ;  
C 203 ; WX 600 ; N cedilla ; B 197 -151 344 10 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 239 497 683 672 ;  
C 206 ; WX 600 ; N ogonek ; B 207 -151 348 0 ;  
C 207 ; WX 600 ; N caron ; B 262 492 614 669 ;  
C 208 ; WX 600 ; N emdash ; B 49 231 661 285 ;  
C 225 ; WX 600 ; N AE ; B 3 0 655 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 209 249 512 580 ;  
C 232 ; WX 600 ; N Lslash ; B 47 0 607 562 ;  
C 233 ; WX 600 ; N Oslash ; B 94 -80 625 629 ;  
C 234 ; WX 600 ; N OE ; B 59 0 672 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 210 249 535 580 ;  
C 241 ; WX 600 ; N ae ; B 41 -15 626 441 ;  
C 245 ; WX 600 ; N dotlessi ; B 95 0 515 426 ;  
C 248 ; WX 600 ; N lslash ; B 95 0 583 629 ;  
C 249 ; WX 600 ; N oslash ; B 102 -80 588 506 ;  
C 250 ; WX 600 ; N oe ; B 54 -15 615 441 ;  
C 251 ; WX 600 ; N germandbls ; B 48 -15 617 629 ;  
C -1 ; WX 600 ; N Odieresis ; B 94 -18 625 731 ;  
C -1 ; WX 600 ; N logicalnot ; B 155 108 591 369 ;  
C -1 ; WX 600 ; N minus ; B 129 232 580 283 ;  
C -1 ; WX 600 ; N merge ; B 187 -15 503 436 ;  
C -1 ; WX 600 ; N degree ; B 214 269 576 622 ;  
C -1 ; WX 600 ; N dectab ; B 18 0 593 227 ;  
C -1 ; WX 600 ; N ll ; B 33 0 616 629 ;  
C -1 ; WX 600 ; N IJ ; B 32 -18 702 562 ;  
C -1 ; WX 600 ; N Eacute ; B 53 0 668 793 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 94 -18 625 775 ;  
C -1 ; WX 600 ; N ucircumflex ; B 101 -15 572 654 ;  
C -1 ; WX 600 ; N left ; B 114 68 580 348 ;



C -1 ; WX 600 ; N threesuperior ; B 213 240 501 622 ;  
C -1 ; WX 600 ; N up ; B 223 0 503 437 ;  
C -1 ; WX 600 ; N multiply ; B 103 43 607 470 ;  
C -1 ; WX 600 ; N Scaron ; B 76 -20 673 805 ;  
C -1 ; WX 600 ; N tab ; B 19 0 641 562 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 125 -18 702 775 ;  
C -1 ; WX 600 ; N divide ; B 136 48 573 467 ;  
C -1 ; WX 600 ; N Acircumflex ; B 3 0 607 775 ;  
C -1 ; WX 600 ; N eacute ; B 106 -15 612 672 ;  
C -1 ; WX 600 ; N uacute ; B 101 -15 602 672 ;  
C -1 ; WX 600 ; N Aacute ; B 3 0 658 793 ;  
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N twosuperior ; B 230 249 535 622 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 53 0 660 775 ;  
C -1 ; WX 600 ; N tilde ; B 26 0 629 606 ;  
C -1 ; WX 600 ; N down ; B 187 -15 467 426 ;  
C -1 ; WX 600 ; N center ; B 103 14 623 580 ;  
C -1 ; WX 600 ; N onesuperior ; B 231 249 491 622 ;  
C -1 ; WX 600 ; N ij ; B 37 -157 630 657 ;  
C -1 ; WX 600 ; N edieresis ; B 106 -15 598 595 ;  
C -1 ; WX 600 ; N graybox ; B 76 0 652 599 ;  
C -1 ; WX 600 ; N odieresis ; B 102 -15 588 595 ;  
C -1 ; WX 600 ; N Ograve ; B 94 -18 625 793 ;  
C -1 ; WX 600 ; N threequarters ; B 73 -56 659 666 ;  
C -1 ; WX 600 ; N plusminus ; B 96 44 594 558 ;  
C -1 ; WX 600 ; N prescription ; B 27 -15 617 562 ;  
C -1 ; WX 600 ; N eth ; B 102 -15 639 629 ;  
C -1 ; WX 600 ; N largebullet ; B 315 220 395 297 ;  
C -1 ; WX 600 ; N egrave ; B 106 -15 598 672 ;  
C -1 ; WX 600 ; N ccedilla ; B 106 -151 614 441 ;  
C -1 ; WX 600 ; N notgraphic ; B 143 -15 564 572 ;  
C -1 ; WX 600 ; N Udieresis ; B 125 -18 702 731 ;  
C -1 ; WX 600 ; N Gcaron ; B 83 -18 645 805 ;  
C -1 ; WX 600 ; N arrowdown ; B 152 -15 520 608 ;  
C -1 ; WX 600 ; N format ; B -28 -157 185 607 ;  
C -1 ; WX 600 ; N Otilde ; B 94 -18 656 732 ;  
C -1 ; WX 600 ; N Idieresis ; B 96 0 623 731 ;  
C -1 ; WX 600 ; N adieresis ; B 76 -15 570 595 ;  
C -1 ; WX 600 ; N ecircumflex ; B 106 -15 598 654 ;  
C -1 ; WX 600 ; N Eth ; B 43 0 645 562 ;  
C -1 ; WX 600 ; N onequarter ; B 65 -57 674 665 ;  
C -1 ; WX 600 ; N LL ; B 8 0 647 562 ;  
C -1 ; WX 600 ; N agrave ; B 76 -15 569 672 ;  
C -1 ; WX 600 ; N Zcaron ; B 86 0 643 805 ;  
C -1 ; WX 600 ; N Scedilla ; B 76 -151 650 580 ;  
C -1 ; WX 600 ; N Idot ; B 96 0 623 716 ;  
C -1 ; WX 600 ; N Iacute ; B 96 0 638 793 ;  
C -1 ; WX 600 ; N indent ; B 108 68 574 348 ;

C -1 ; WX 600 ; N Ugrave ; B 125 -18 702 793 ;  
C -1 ; WX 600 ; N scaron ; B 78 -15 614 669 ;  
C -1 ; WX 600 ; N overscore ; B 123 579 734 629 ;  
C -1 ; WX 600 ; N Aring ; B 3 0 607 753 ;  
C -1 ; WX 600 ; N Ccedilla ; B 93 -151 658 580 ;  
C -1 ; WX 600 ; N Igrave ; B 96 0 623 793 ;  
C -1 ; WX 600 ; N brokenbar ; B 238 -175 469 675 ;  
C -1 ; WX 600 ; N Oacute ; B 94 -18 638 793 ;  
C -1 ; WX 600 ; N otilde ; B 102 -15 629 606 ;  
C -1 ; WX 600 ; N Yacute ; B 133 0 695 793 ;  
C -1 ; WX 600 ; N lira ; B 118 -21 621 611 ;  
C -1 ; WX 600 ; N Icircumflex ; B 96 0 623 775 ;  
C -1 ; WX 600 ; N Atilde ; B 3 0 656 732 ;  
C -1 ; WX 600 ; N Uacute ; B 125 -18 702 793 ;  
C -1 ; WX 600 ; N Ydieresis ; B 133 0 695 731 ;  
C -1 ; WX 600 ; N ydieresis ; B -4 -157 683 595 ;  
C -1 ; WX 600 ; N idieresis ; B 95 0 540 595 ;  
C -1 ; WX 600 ; N Adieresis ; B 3 0 607 731 ;  
C -1 ; WX 600 ; N mu ; B 72 -157 572 426 ;  
C -1 ; WX 600 ; N trademark ; B 75 263 742 562 ;  
C -1 ; WX 600 ; N oacute ; B 102 -15 612 672 ;  
C -1 ; WX 600 ; N acircumflex ; B 76 -15 581 654 ;  
C -1 ; WX 600 ; N Agrave ; B 3 0 607 793 ;  
C -1 ; WX 600 ; N return ; B 79 0 700 562 ;  
C -1 ; WX 600 ; N atilde ; B 76 -15 629 606 ;  
C -1 ; WX 600 ; N square ; B 19 0 700 562 ;  
C -1 ; WX 600 ; N registered ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N stop ; B 19 0 700 562 ;  
C -1 ; WX 600 ; N udieresis ; B 101 -15 572 595 ;  
C -1 ; WX 600 ; N arrowup ; B 209 0 577 623 ;  
C -1 ; WX 600 ; N igrave ; B 95 0 515 672 ;  
C -1 ; WX 600 ; N Edieresis ; B 53 0 660 731 ;  
C -1 ; WX 600 ; N zcaron ; B 99 0 624 669 ;  
C -1 ; WX 600 ; N arrowboth ; B 36 115 692 483 ;  
C -1 ; WX 600 ; N gcaron ; B 61 -157 657 669 ;  
C -1 ; WX 600 ; N arrowleft ; B 40 115 693 483 ;  
C -1 ; WX 600 ; N aacute ; B 76 -15 612 672 ;  
C -1 ; WX 600 ; N ocircumflex ; B 102 -15 588 654 ;  
C -1 ; WX 600 ; N scedilla ; B 78 -151 584 441 ;  
C -1 ; WX 600 ; N ograve ; B 102 -15 588 672 ;  
C -1 ; WX 600 ; N onehalf ; B 65 -57 669 665 ;  
C -1 ; WX 600 ; N ugrave ; B 101 -15 572 672 ;  
C -1 ; WX 600 ; N Ntilde ; B 7 -13 712 732 ;  
C -1 ; WX 600 ; N iacute ; B 95 0 612 672 ;  
C -1 ; WX 600 ; N arrowright ; B 34 115 688 483 ;  
C -1 ; WX 600 ; N Thorn ; B 79 0 606 562 ;  
C -1 ; WX 600 ; N Egrave ; B 53 0 660 793 ;  
C -1 ; WX 600 ; N thorn ; B -24 -157 605 629 ;

C -1 ; WX 600 ; N aring ; B 76 -15 569 627 ;  
C -1 ; WX 600 ; N yacute ; B -4 -157 683 672 ;  
C -1 ; WX 600 ; N icircumflex ; B 95 0 551 654 ;  
EndCharMetrics  
StartComposites 58  
CC Aacute 2 ; PCC A 0 0 ; PCC acute 46 121 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex -4 121 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis -1 136 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave -4 121 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 12 126 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 27 126 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 56 121 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 26 121 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 29 136 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 26 121 ;  
CC Gcaron 2 ; PCC G 0 0 ; PCC caron 29 136 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 26 121 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 26 121 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 29 136 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 26 121 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 27 126 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 26 121 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 26 121 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 29 136 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 26 121 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 27 126 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 59 136 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 56 121 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 26 121 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 29 136 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave -4 121 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 56 121 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 29 136 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 29 136 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 0 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 0 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 0 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 0 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 0 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 0 0 ;  
CC gcaron 2 ; PCC g 0 0 ; PCC caron -30 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -30 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -30 0 ;

CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -30 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 0 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 0 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 0 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 0 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 0 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 0 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 0 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute -10 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -10 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 0 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute -20 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis -10 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 10 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu Mar 15 10:44:33 1990

Comment UniqueID 28371

Comment VMusage 7614 43068

FontName Helvetica-BoldOblique

FullName Helvetica Bold Oblique

FamilyName Helvetica

Weight Bold

ItalicAngle -12

IsFixedPitch false

FontBBox -174 -228 1114 962

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;  
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;  
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;  
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;  
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;  
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;  
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;

C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;  
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;  
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;  
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;  
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;  
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;  
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;  
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;  
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;  
C 49 ; WX 556 ; N one ; B 173 0 529 710 ;  
C 50 ; WX 556 ; N two ; B 26 0 619 710 ;  
C 51 ; WX 556 ; N three ; B 65 -19 608 710 ;  
C 52 ; WX 556 ; N four ; B 60 0 598 710 ;  
C 53 ; WX 556 ; N five ; B 64 -19 636 698 ;  
C 54 ; WX 556 ; N six ; B 85 -19 619 710 ;  
C 55 ; WX 556 ; N seven ; B 125 0 676 698 ;  
C 56 ; WX 556 ; N eight ; B 69 -19 616 710 ;  
C 57 ; WX 556 ; N nine ; B 78 -19 615 710 ;  
C 58 ; WX 333 ; N colon ; B 92 0 351 512 ;  
C 59 ; WX 333 ; N semicolon ; B 56 -168 351 512 ;  
C 60 ; WX 584 ; N less ; B 82 -8 655 514 ;  
C 61 ; WX 584 ; N equal ; B 58 87 633 419 ;  
C 62 ; WX 584 ; N greater ; B 36 -8 609 514 ;  
C 63 ; WX 611 ; N question ; B 165 0 671 727 ;  
C 64 ; WX 975 ; N at ; B 186 -19 954 737 ;  
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;  
C 66 ; WX 722 ; N B ; B 76 0 764 718 ;  
C 67 ; WX 722 ; N C ; B 107 -19 789 737 ;  
C 68 ; WX 722 ; N D ; B 76 0 777 718 ;  
C 69 ; WX 667 ; N E ; B 76 0 757 718 ;  
C 70 ; WX 611 ; N F ; B 76 0 740 718 ;  
C 71 ; WX 778 ; N G ; B 108 -19 817 737 ;  
C 72 ; WX 722 ; N H ; B 71 0 804 718 ;  
C 73 ; WX 278 ; N I ; B 64 0 367 718 ;  
C 74 ; WX 556 ; N J ; B 60 -18 637 718 ;  
C 75 ; WX 722 ; N K ; B 87 0 858 718 ;  
C 76 ; WX 611 ; N L ; B 76 0 611 718 ;  
C 77 ; WX 833 ; N M ; B 69 0 918 718 ;  
C 78 ; WX 722 ; N N ; B 69 0 807 718 ;  
C 79 ; WX 778 ; N O ; B 107 -19 823 737 ;  
C 80 ; WX 667 ; N P ; B 76 0 738 718 ;  
C 81 ; WX 778 ; N Q ; B 107 -52 823 737 ;  
C 82 ; WX 722 ; N R ; B 76 0 778 718 ;  
C 83 ; WX 667 ; N S ; B 81 -19 718 737 ;  
C 84 ; WX 611 ; N T ; B 140 0 751 718 ;  
C 85 ; WX 722 ; N U ; B 116 -19 804 718 ;  
C 86 ; WX 667 ; N V ; B 172 0 801 718 ;  
C 87 ; WX 944 ; N W ; B 169 0 1082 718 ;

C 88 ; WX 667 ; N X ; B 14 0 791 718 ;  
C 89 ; WX 667 ; N Y ; B 168 0 806 718 ;  
C 90 ; WX 611 ; N Z ; B 25 0 737 718 ;  
C 91 ; WX 333 ; N bracketleft ; B 21 -196 462 722 ;  
C 92 ; WX 278 ; N backslash ; B 124 -19 307 737 ;  
C 93 ; WX 333 ; N bracketright ; B -18 -196 423 722 ;  
C 94 ; WX 584 ; N asciicircum ; B 131 323 591 698 ;  
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 165 454 361 727 ;  
C 97 ; WX 556 ; N a ; B 55 -14 583 546 ;  
C 98 ; WX 611 ; N b ; B 61 -14 645 718 ;  
C 99 ; WX 556 ; N c ; B 79 -14 599 546 ;  
C 100 ; WX 611 ; N d ; B 82 -14 704 718 ;  
C 101 ; WX 556 ; N e ; B 70 -14 593 546 ;  
C 102 ; WX 333 ; N f ; B 87 0 469 727 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 38 -217 666 546 ;  
C 104 ; WX 611 ; N h ; B 65 0 629 718 ;  
C 105 ; WX 278 ; N i ; B 69 0 363 725 ;  
C 106 ; WX 278 ; N j ; B -42 -214 363 725 ;  
C 107 ; WX 556 ; N k ; B 69 0 670 718 ;  
C 108 ; WX 278 ; N l ; B 69 0 362 718 ;  
C 109 ; WX 889 ; N m ; B 64 0 909 546 ;  
C 110 ; WX 611 ; N n ; B 65 0 629 546 ;  
C 111 ; WX 611 ; N o ; B 82 -14 643 546 ;  
C 112 ; WX 611 ; N p ; B 18 -207 645 546 ;  
C 113 ; WX 611 ; N q ; B 80 -207 665 546 ;  
C 114 ; WX 389 ; N r ; B 64 0 489 546 ;  
C 115 ; WX 556 ; N s ; B 63 -14 584 546 ;  
C 116 ; WX 333 ; N t ; B 100 -6 422 676 ;  
C 117 ; WX 611 ; N u ; B 98 -14 658 532 ;  
C 118 ; WX 556 ; N v ; B 126 0 656 532 ;  
C 119 ; WX 778 ; N w ; B 123 0 882 532 ;  
C 120 ; WX 556 ; N x ; B 15 0 648 532 ;  
C 121 ; WX 556 ; N y ; B 42 -214 652 532 ;  
C 122 ; WX 500 ; N z ; B 20 0 583 532 ;  
C 123 ; WX 389 ; N braceleft ; B 94 -196 518 722 ;  
C 124 ; WX 280 ; N bar ; B 80 -19 353 737 ;  
C 125 ; WX 389 ; N braceright ; B -18 -196 407 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 115 163 577 343 ;  
C 161 ; WX 333 ; N exclamdown ; B 50 -186 353 532 ;  
C 162 ; WX 556 ; N cent ; B 79 -118 599 628 ;  
C 163 ; WX 556 ; N sterling ; B 50 -16 635 718 ;  
C 164 ; WX 167 ; N fraction ; B -174 -19 487 710 ;  
C 165 ; WX 556 ; N yen ; B 60 0 713 698 ;  
C 166 ; WX 556 ; N florin ; B -50 -210 669 737 ;  
C 167 ; WX 556 ; N section ; B 61 -184 598 727 ;  
C 168 ; WX 556 ; N currency ; B 27 76 680 636 ;  
C 169 ; WX 238 ; N quotesingle ; B 165 447 321 718 ;

C 170 ; WX 500 ; N quotedblleft ; B 160 454 588 727 ;  
C 171 ; WX 556 ; N guillemotleft ; B 135 76 571 484 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 130 76 353 484 ;  
C 173 ; WX 333 ; N guilsinglright ; B 99 76 322 484 ;  
C 174 ; WX 611 ; N fi ; B 87 0 696 727 ;  
C 175 ; WX 611 ; N fl ; B 87 0 695 727 ;  
C 177 ; WX 556 ; N endash ; B 48 227 627 333 ;  
C 178 ; WX 556 ; N dagger ; B 118 -171 626 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 46 -171 628 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 110 172 276 334 ;  
C 182 ; WX 556 ; N paragraph ; B 98 -191 688 700 ;  
C 183 ; WX 350 ; N bullet ; B 83 194 420 524 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 41 -146 236 127 ;  
C 185 ; WX 500 ; N quotedblbase ; B 36 -146 463 127 ;  
C 186 ; WX 500 ; N quotedblright ; B 162 445 589 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 104 76 540 484 ;  
C 188 ; WX 1000 ; N ellipsis ; B 92 0 939 146 ;  
C 189 ; WX 1000 ; N perthousand ; B 76 -19 1038 710 ;  
C 191 ; WX 611 ; N questiondown ; B 53 -195 559 532 ;  
C 193 ; WX 333 ; N grave ; B 136 604 353 750 ;  
C 194 ; WX 333 ; N acute ; B 236 604 515 750 ;  
C 195 ; WX 333 ; N circumflex ; B 118 604 471 750 ;  
C 196 ; WX 333 ; N tilde ; B 113 610 507 737 ;  
C 197 ; WX 333 ; N macron ; B 122 604 483 678 ;  
C 198 ; WX 333 ; N breve ; B 156 604 494 750 ;  
C 199 ; WX 333 ; N dotaccent ; B 235 614 385 729 ;  
C 200 ; WX 333 ; N dieresis ; B 137 614 482 729 ;  
C 202 ; WX 333 ; N ring ; B 200 568 420 776 ;  
C 203 ; WX 333 ; N cedilla ; B -37 -228 220 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 137 604 645 750 ;  
C 206 ; WX 333 ; N ogonek ; B 41 -228 264 0 ;  
C 207 ; WX 333 ; N caron ; B 149 604 502 750 ;  
C 208 ; WX 1000 ; N emdash ; B 48 227 1071 333 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 1100 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 92 276 465 737 ;  
C 232 ; WX 611 ; N Lslash ; B 34 0 611 718 ;  
C 233 ; WX 778 ; N Oslash ; B 35 -27 894 745 ;  
C 234 ; WX 1000 ; N OE ; B 99 -19 1114 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 92 276 485 737 ;  
C 241 ; WX 889 ; N ae ; B 56 -14 923 546 ;  
C 245 ; WX 278 ; N dotlessi ; B 69 0 322 532 ;  
C 248 ; WX 278 ; N lslash ; B 40 0 407 718 ;  
C 249 ; WX 611 ; N oslash ; B 22 -29 701 560 ;  
C 250 ; WX 944 ; N oe ; B 82 -14 977 546 ;  
C 251 ; WX 611 ; N germandbls ; B 69 -14 657 731 ;  
C -1 ; WX 611 ; N Zcaron ; B 25 0 737 936 ;  
C -1 ; WX 556 ; N ccedilla ; B 79 -228 599 546 ;  
C -1 ; WX 556 ; N ydieresis ; B 42 -214 652 729 ;

C -1 ; WX 556 ; N atilde ; B 55 -14 619 737 ;  
C -1 ; WX 278 ; N icircumflex ; B 69 0 444 750 ;  
C -1 ; WX 333 ; N threesuperior ; B 91 271 441 710 ;  
C -1 ; WX 556 ; N ecircumflex ; B 70 -14 593 750 ;  
C -1 ; WX 611 ; N thorn ; B 18 -208 645 718 ;  
C -1 ; WX 556 ; N egrave ; B 70 -14 593 750 ;  
C -1 ; WX 333 ; N twosuperior ; B 69 283 449 710 ;  
C -1 ; WX 556 ; N eacute ; B 70 -14 627 750 ;  
C -1 ; WX 611 ; N otilde ; B 82 -14 646 737 ;  
C -1 ; WX 722 ; N Aacute ; B 20 0 750 936 ;  
C -1 ; WX 611 ; N ocircumflex ; B 82 -14 643 750 ;  
C -1 ; WX 556 ; N yacute ; B 42 -214 652 750 ;  
C -1 ; WX 611 ; N udieresis ; B 98 -14 658 729 ;  
C -1 ; WX 834 ; N threequarters ; B 99 -19 839 710 ;  
C -1 ; WX 556 ; N acircumflex ; B 55 -14 583 750 ;  
C -1 ; WX 722 ; N Eth ; B 62 0 777 718 ;  
C -1 ; WX 556 ; N edieresis ; B 70 -14 594 729 ;  
C -1 ; WX 611 ; N ugrave ; B 98 -14 658 750 ;  
C -1 ; WX 1000 ; N trademark ; B 179 306 1109 718 ;  
C -1 ; WX 611 ; N ograve ; B 82 -14 643 750 ;  
C -1 ; WX 556 ; N scaron ; B 63 -14 614 750 ;  
C -1 ; WX 278 ; N Idieresis ; B 64 0 494 915 ;  
C -1 ; WX 611 ; N uacute ; B 98 -14 658 750 ;  
C -1 ; WX 556 ; N agrave ; B 55 -14 583 750 ;  
C -1 ; WX 611 ; N ntilde ; B 65 0 646 737 ;  
C -1 ; WX 556 ; N aring ; B 55 -14 583 776 ;  
C -1 ; WX 500 ; N zcaron ; B 20 0 586 750 ;  
C -1 ; WX 278 ; N Icircumflex ; B 64 0 484 936 ;  
C -1 ; WX 722 ; N Ntilde ; B 69 0 807 923 ;  
C -1 ; WX 611 ; N ucircumflex ; B 98 -14 658 750 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 757 936 ;  
C -1 ; WX 278 ; N Iacute ; B 64 0 528 936 ;  
C -1 ; WX 722 ; N Ccedilla ; B 107 -228 789 737 ;  
C -1 ; WX 778 ; N Odieresis ; B 107 -19 823 915 ;  
C -1 ; WX 667 ; N Scaron ; B 81 -19 718 936 ;  
C -1 ; WX 667 ; N Edieresis ; B 76 0 757 915 ;  
C -1 ; WX 278 ; N Igrave ; B 64 0 367 936 ;  
C -1 ; WX 556 ; N adieresis ; B 55 -14 594 729 ;  
C -1 ; WX 778 ; N Ograve ; B 107 -19 823 936 ;  
C -1 ; WX 667 ; N Egrave ; B 76 0 757 936 ;  
C -1 ; WX 667 ; N Ydieresis ; B 168 0 806 915 ;  
C -1 ; WX 737 ; N registered ; B 55 -19 834 737 ;  
C -1 ; WX 778 ; N Otilde ; B 107 -19 823 923 ;  
C -1 ; WX 834 ; N onequarter ; B 132 -19 806 710 ;  
C -1 ; WX 722 ; N Ugrave ; B 116 -19 804 936 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 116 -19 804 936 ;  
C -1 ; WX 667 ; N Thorn ; B 76 0 716 718 ;  
C -1 ; WX 584 ; N divide ; B 82 -42 610 548 ;



C -1 ; WX 722 ; N Atilde ; B 20 0 741 923 ;  
C -1 ; WX 722 ; N Uacute ; B 116 -19 804 936 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 107 -19 823 936 ;  
C -1 ; WX 584 ; N logicalnot ; B 105 108 633 419 ;  
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;  
C -1 ; WX 278 ; N idieresis ; B 69 0 455 729 ;  
C -1 ; WX 278 ; N iacute ; B 69 0 488 750 ;  
C -1 ; WX 556 ; N aacute ; B 55 -14 627 750 ;  
C -1 ; WX 584 ; N plusminus ; B 40 0 625 506 ;  
C -1 ; WX 584 ; N multiply ; B 57 1 635 505 ;  
C -1 ; WX 722 ; N Udieresis ; B 116 -19 804 915 ;  
C -1 ; WX 584 ; N minus ; B 82 197 610 309 ;  
C -1 ; WX 333 ; N onesuperior ; B 148 283 388 710 ;  
C -1 ; WX 667 ; N Eacute ; B 76 0 757 936 ;  
C -1 ; WX 722 ; N Acircumflex ; B 20 0 706 936 ;  
C -1 ; WX 737 ; N copyright ; B 56 -19 835 737 ;  
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;  
C -1 ; WX 611 ; N odieresis ; B 82 -14 643 729 ;  
C -1 ; WX 611 ; N oacute ; B 82 -14 654 750 ;  
C -1 ; WX 400 ; N degree ; B 175 426 467 712 ;  
C -1 ; WX 278 ; N igrave ; B 69 0 326 750 ;  
C -1 ; WX 611 ; N mu ; B 22 -207 658 532 ;  
C -1 ; WX 778 ; N Oacute ; B 107 -19 823 936 ;  
C -1 ; WX 611 ; N eth ; B 82 -14 670 737 ;  
C -1 ; WX 722 ; N Adieresis ; B 20 0 716 915 ;  
C -1 ; WX 667 ; N Yacute ; B 168 0 806 936 ;  
C -1 ; WX 280 ; N brokenbar ; B 80 -19 353 737 ;  
C -1 ; WX 834 ; N onehalf ; B 132 -19 858 710 ;

EndCharMetrics

StartKernData

StartKernPairs 209

KPX A y -30  
KPX A w -30  
KPX A v -40  
KPX A u -30  
KPX A Y -110  
KPX A W -60  
KPX A V -80  
KPX A U -50  
KPX A T -90  
KPX A Q -40  
KPX A O -40  
KPX A G -50  
KPX A C -40

KPX B U -10

KPX B A -30

KPX D period -30  
KPX D comma -30  
KPX D Y -70  
KPX D W -40  
KPX D V -40  
KPX D A -40

KPX F period -100  
KPX F comma -100  
KPX F a -20  
KPX F A -80

KPX J u -20  
KPX J period -20  
KPX J comma -20  
KPX J A -20

KPX K y -40  
KPX K u -30  
KPX K o -35  
KPX K e -15  
KPX K O -30

KPX L y -30  
KPX L quoteright -140  
KPX L quotedblright -140  
KPX L Y -120  
KPX L W -80  
KPX L V -110  
KPX L T -90

KPX O period -40  
KPX O comma -40  
KPX O Y -70  
KPX O X -50  
KPX O W -50  
KPX O V -50  
KPX O T -40  
KPX O A -50

KPX P period -120  
KPX P o -40  
KPX P e -30  
KPX P comma -120  
KPX P a -30  
KPX P A -100

KPX Q period 20  
KPX Q comma 20  
KPX Q U -10

KPX R Y -50  
KPX R W -40  
KPX R V -50  
KPX R U -20  
KPX R T -20  
KPX R O -20

KPX T y -60  
KPX T w -60  
KPX T u -90  
KPX T semicolon -40  
KPX T r -80  
KPX T period -80  
KPX T o -80  
KPX T hyphen -120  
KPX T e -60  
KPX T comma -80  
KPX T colon -40  
KPX T a -80  
KPX T O -40  
KPX T A -90

KPX U period -30  
KPX U comma -30  
KPX U A -50

KPX V u -60  
KPX V semicolon -40  
KPX V period -120  
KPX V o -90  
KPX V hyphen -80  
KPX V e -50  
KPX V comma -120  
KPX V colon -40  
KPX V a -60  
KPX V O -50  
KPX V G -50  
KPX V A -80

KPX W y -20  
KPX W u -45  
KPX W semicolon -10  
KPX W period -80  
KPX W o -60

KPX W hyphen -40  
KPX W e -35  
KPX W comma -80  
KPX W colon -10  
KPX W a -40  
KPX W O -20  
KPX W A -60

KPX Y u -100  
KPX Y semicolon -50  
KPX Y period -100  
KPX Y o -100  
KPX Y e -80  
KPX Y comma -100  
KPX Y colon -50  
KPX Y a -90  
KPX Y O -70  
KPX Y A -110

KPX a y -20  
KPX a w -15  
KPX a v -15  
KPX a g -10

KPX b y -20  
KPX b v -20  
KPX b u -20  
KPX b l -10

KPX c y -10  
KPX c l -20  
KPX c k -20  
KPX c h -10

KPX colon space -40

KPX comma space -40  
KPX comma quoteright -120  
KPX comma quotedblright -120

KPX d y -15  
KPX d w -15  
KPX d v -15  
KPX d d -10

KPX e y -15  
KPX e x -15  
KPX e w -15

KPX e v -15  
KPX e period 20  
KPX e comma 10

KPX f quoteright 30  
KPX f quotedblright 30  
KPX f period -10  
KPX f o -20  
KPX f e -10  
KPX f comma -10

KPX g g -10  
KPX g e 10

KPX h y -20

KPX k o -15

KPX l y -15  
KPX l w -15

KPX m y -30  
KPX m u -20

KPX n y -20  
KPX n v -40  
KPX n u -10

KPX o y -20  
KPX o x -30  
KPX o w -15  
KPX o v -20

KPX p y -15

KPX period space -40  
KPX period quoteright -120  
KPX period quotedblright -120

KPX quotedblright space -80

KPX quoteleft quoteleft -46

KPX quoteright v -20  
KPX quoteright space -80  
KPX quoteright s -60  
KPX quoteright r -40  
KPX quoteright quoteright -46

KPX quoteright l -20  
KPX quoteright d -80

KPX r y 10  
KPX r v 10  
KPX r t 20  
KPX r s -15  
KPX r q -20  
KPX r period -60  
KPX r o -20  
KPX r hyphen -20  
KPX r g -15  
KPX r d -20  
KPX r comma -60  
KPX r c -20

KPX s w -15

KPX semicolon space -40

KPX space quoteleft -60  
KPX space quotedblleft -80  
KPX space Y -120  
KPX space W -80  
KPX space V -80  
KPX space T -100

KPX v period -80  
KPX v o -30  
KPX v comma -80  
KPX v a -20

KPX w period -40  
KPX w o -20  
KPX w comma -40

KPX x e -10

KPX y period -80  
KPX y o -25  
KPX y e -10  
KPX y comma -80  
KPX y a -30

KPX z e 10  
EndKernPairs  
EndKernData  
StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 235 186 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 235 186 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 235 186 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 235 186 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 235 186 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 235 186 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 207 186 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 207 186 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 207 186 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 207 186 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 13 186 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 13 186 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 13 186 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 13 186 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 235 186 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 263 186 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 263 186 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 263 186 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 263 186 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 263 186 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 207 186 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 235 186 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 235 186 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 186 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 235 186 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 207 186 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 207 186 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 179 186 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 132 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;

CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 139 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 112 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 139 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 112 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue Mar 20 12:15:44 1990

Comment UniqueID 28416

Comment VMusage 30487 37379

FontName Times-Roman

FullName Times Roman

FamilyName Times

Weight Roman

ItalicAngle 0

IsFixedPitch false

FontBBox -168 -218 1000 898

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Times is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 662

XHeight 450

Ascender 683

Descender -217

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 130 -9 238 676 ;

C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;

C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;

C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;

C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;

C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;

C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;

C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;

C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;

C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;

C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;

C 44 ; WX 250 ; N comma ; B 56 -141 195 102 ;



C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;  
C 46 ; WX 250 ; N period ; B 70 -11 181 100 ;  
C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;  
C 48 ; WX 500 ; N zero ; B 24 -14 476 676 ;  
C 49 ; WX 500 ; N one ; B 111 0 394 676 ;  
C 50 ; WX 500 ; N two ; B 30 0 475 676 ;  
C 51 ; WX 500 ; N three ; B 43 -14 431 676 ;  
C 52 ; WX 500 ; N four ; B 12 0 472 676 ;  
C 53 ; WX 500 ; N five ; B 32 -14 438 688 ;  
C 54 ; WX 500 ; N six ; B 34 -14 468 684 ;  
C 55 ; WX 500 ; N seven ; B 20 -8 449 662 ;  
C 56 ; WX 500 ; N eight ; B 56 -14 445 676 ;  
C 57 ; WX 500 ; N nine ; B 30 -22 459 676 ;  
C 58 ; WX 278 ; N colon ; B 81 -11 192 459 ;  
C 59 ; WX 278 ; N semicolon ; B 80 -141 219 459 ;  
C 60 ; WX 564 ; N less ; B 28 -8 536 514 ;  
C 61 ; WX 564 ; N equal ; B 30 120 534 386 ;  
C 62 ; WX 564 ; N greater ; B 28 -8 536 514 ;  
C 63 ; WX 444 ; N question ; B 68 -8 414 676 ;  
C 64 ; WX 921 ; N at ; B 116 -14 809 676 ;  
C 65 ; WX 722 ; N A ; B 15 0 706 674 ;  
C 66 ; WX 667 ; N B ; B 17 0 593 662 ;  
C 67 ; WX 667 ; N C ; B 28 -14 633 676 ;  
C 68 ; WX 722 ; N D ; B 16 0 685 662 ;  
C 69 ; WX 611 ; N E ; B 12 0 597 662 ;  
C 70 ; WX 556 ; N F ; B 12 0 546 662 ;  
C 71 ; WX 722 ; N G ; B 32 -14 709 676 ;  
C 72 ; WX 722 ; N H ; B 19 0 702 662 ;  
C 73 ; WX 333 ; N I ; B 18 0 315 662 ;  
C 74 ; WX 389 ; N J ; B 10 -14 370 662 ;  
C 75 ; WX 722 ; N K ; B 34 0 723 662 ;  
C 76 ; WX 611 ; N L ; B 12 0 598 662 ;  
C 77 ; WX 889 ; N M ; B 12 0 863 662 ;  
C 78 ; WX 722 ; N N ; B 12 -11 707 662 ;  
C 79 ; WX 722 ; N O ; B 34 -14 688 676 ;  
C 80 ; WX 556 ; N P ; B 16 0 542 662 ;  
C 81 ; WX 722 ; N Q ; B 34 -178 701 676 ;  
C 82 ; WX 667 ; N R ; B 17 0 659 662 ;  
C 83 ; WX 556 ; N S ; B 42 -14 491 676 ;  
C 84 ; WX 611 ; N T ; B 17 0 593 662 ;  
C 85 ; WX 722 ; N U ; B 14 -14 705 662 ;  
C 86 ; WX 722 ; N V ; B 16 -11 697 662 ;  
C 87 ; WX 944 ; N W ; B 5 -11 932 662 ;  
C 88 ; WX 722 ; N X ; B 10 0 704 662 ;  
C 89 ; WX 722 ; N Y ; B 22 0 703 662 ;  
C 90 ; WX 611 ; N Z ; B 9 0 597 662 ;  
C 91 ; WX 333 ; N bracketleft ; B 88 -156 299 662 ;  
C 92 ; WX 278 ; N backslash ; B -9 -14 287 676 ;

C 93 ; WX 333 ; N bracketright ; B 34 -156 245 662 ;  
C 94 ; WX 469 ; N asciicircum ; B 24 297 446 662 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 115 433 254 676 ;  
C 97 ; WX 444 ; N a ; B 37 -10 442 460 ;  
C 98 ; WX 500 ; N b ; B 3 -10 468 683 ;  
C 99 ; WX 444 ; N c ; B 25 -10 412 460 ;  
C 100 ; WX 500 ; N d ; B 27 -10 491 683 ;  
C 101 ; WX 444 ; N e ; B 25 -10 424 460 ;  
C 102 ; WX 333 ; N f ; B 20 0 383 683 ; L i fi ; L l fl ;  
C 103 ; WX 500 ; N g ; B 28 -218 470 460 ;  
C 104 ; WX 500 ; N h ; B 9 0 487 683 ;  
C 105 ; WX 278 ; N i ; B 16 0 253 683 ;  
C 106 ; WX 278 ; N j ; B -70 -218 194 683 ;  
C 107 ; WX 500 ; N k ; B 7 0 505 683 ;  
C 108 ; WX 278 ; N l ; B 19 0 257 683 ;  
C 109 ; WX 778 ; N m ; B 16 0 775 460 ;  
C 110 ; WX 500 ; N n ; B 16 0 485 460 ;  
C 111 ; WX 500 ; N o ; B 29 -10 470 460 ;  
C 112 ; WX 500 ; N p ; B 5 -217 470 460 ;  
C 113 ; WX 500 ; N q ; B 24 -217 488 460 ;  
C 114 ; WX 333 ; N r ; B 5 0 335 460 ;  
C 115 ; WX 389 ; N s ; B 51 -10 348 460 ;  
C 116 ; WX 278 ; N t ; B 13 -10 279 579 ;  
C 117 ; WX 500 ; N u ; B 9 -10 479 450 ;  
C 118 ; WX 500 ; N v ; B 19 -14 477 450 ;  
C 119 ; WX 722 ; N w ; B 21 -14 694 450 ;  
C 120 ; WX 500 ; N x ; B 17 0 479 450 ;  
C 121 ; WX 500 ; N y ; B 14 -218 475 450 ;  
C 122 ; WX 444 ; N z ; B 27 0 418 450 ;  
C 123 ; WX 480 ; N braceleft ; B 100 -181 350 680 ;  
C 124 ; WX 200 ; N bar ; B 67 -14 133 676 ;  
C 125 ; WX 480 ; N braceright ; B 130 -181 380 680 ;  
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;  
C 161 ; WX 333 ; N exclamdown ; B 97 -218 205 467 ;  
C 162 ; WX 500 ; N cent ; B 53 -138 448 579 ;  
C 163 ; WX 500 ; N sterling ; B 12 -8 490 676 ;  
C 164 ; WX 167 ; N fraction ; B -168 -14 331 676 ;  
C 165 ; WX 500 ; N yen ; B -53 0 512 662 ;  
C 166 ; WX 500 ; N florin ; B 7 -189 490 676 ;  
C 167 ; WX 500 ; N section ; B 70 -148 426 676 ;  
C 168 ; WX 500 ; N currency ; B -22 58 522 602 ;  
C 169 ; WX 180 ; N quotesingle ; B 48 431 133 676 ;  
C 170 ; WX 444 ; N quotedblleft ; B 43 433 414 676 ;  
C 171 ; WX 500 ; N guillemotleft ; B 42 33 456 416 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 63 33 285 416 ;  
C 173 ; WX 333 ; N guilsinglright ; B 48 33 270 416 ;  
C 174 ; WX 556 ; N fi ; B 31 0 521 683 ;

C 175 ; WX 556 ; N fl ; B 32 0 521 683 ;  
C 177 ; WX 500 ; N endash ; B 0 201 500 250 ;  
C 178 ; WX 500 ; N dagger ; B 59 -149 442 676 ;  
C 179 ; WX 500 ; N daggerdbl ; B 58 -153 442 676 ;  
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;  
C 182 ; WX 453 ; N paragraph ; B -22 -154 450 662 ;  
C 183 ; WX 350 ; N bullet ; B 40 196 310 466 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 79 -141 218 102 ;  
C 185 ; WX 444 ; N quotedblbase ; B 45 -141 416 102 ;  
C 186 ; WX 444 ; N quotedblright ; B 30 433 401 676 ;  
C 187 ; WX 500 ; N guillemotright ; B 44 33 458 416 ;  
C 188 ; WX 1000 ; N ellipsis ; B 111 -11 888 100 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 706 ;  
C 191 ; WX 444 ; N questiondown ; B 30 -218 376 466 ;  
C 193 ; WX 333 ; N grave ; B 19 507 242 678 ;  
C 194 ; WX 333 ; N acute ; B 93 507 317 678 ;  
C 195 ; WX 333 ; N circumflex ; B 11 507 322 674 ;  
C 196 ; WX 333 ; N tilde ; B 1 532 331 638 ;  
C 197 ; WX 333 ; N macron ; B 11 547 322 601 ;  
C 198 ; WX 333 ; N breve ; B 26 507 307 664 ;  
C 199 ; WX 333 ; N dotaccent ; B 118 523 216 623 ;  
C 200 ; WX 333 ; N dieresis ; B 18 523 315 623 ;  
C 202 ; WX 333 ; N ring ; B 67 512 266 711 ;  
C 203 ; WX 333 ; N cedilla ; B 52 -215 261 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -3 507 377 678 ;  
C 206 ; WX 333 ; N ogonek ; B 64 -165 249 0 ;  
C 207 ; WX 333 ; N caron ; B 11 507 322 674 ;  
C 208 ; WX 1000 ; N emdash ; B 0 201 1000 250 ;  
C 225 ; WX 889 ; N AE ; B 0 0 863 662 ;  
C 227 ; WX 276 ; N ordfeminine ; B 4 394 270 676 ;  
C 232 ; WX 611 ; N Lslash ; B 12 0 598 662 ;  
C 233 ; WX 722 ; N Oslash ; B 34 -80 688 734 ;  
C 234 ; WX 889 ; N OE ; B 30 -6 885 668 ;  
C 235 ; WX 310 ; N ordmasculine ; B 6 394 304 676 ;  
C 241 ; WX 667 ; N ae ; B 38 -10 632 460 ;  
C 245 ; WX 278 ; N dotlessi ; B 16 0 253 460 ;  
C 248 ; WX 278 ; N lslash ; B 19 0 259 683 ;  
C 249 ; WX 500 ; N oslash ; B 29 -112 470 551 ;  
C 250 ; WX 722 ; N oe ; B 30 -10 690 460 ;  
C 251 ; WX 500 ; N germandbls ; B 12 -9 468 683 ;  
C -1 ; WX 611 ; N Zcaron ; B 9 0 597 886 ;  
C -1 ; WX 444 ; N ccedilla ; B 25 -215 412 460 ;  
C -1 ; WX 500 ; N ydieresis ; B 14 -218 475 623 ;  
C -1 ; WX 444 ; N atilde ; B 37 -10 442 638 ;  
C -1 ; WX 278 ; N icircumflex ; B -16 0 295 674 ;  
C -1 ; WX 300 ; N threesuperior ; B 15 262 291 676 ;  
C -1 ; WX 444 ; N ecircumflex ; B 25 -10 424 674 ;  
C -1 ; WX 500 ; N thorn ; B 5 -217 470 683 ;

C -1 ; WX 444 ; N egrave ; B 25 -10 424 678 ;  
C -1 ; WX 300 ; N twosuperior ; B 1 270 296 676 ;  
C -1 ; WX 444 ; N eacute ; B 25 -10 424 678 ;  
C -1 ; WX 500 ; N otilde ; B 29 -10 470 638 ;  
C -1 ; WX 722 ; N Aacute ; B 15 0 706 890 ;  
C -1 ; WX 500 ; N ocircumflex ; B 29 -10 470 674 ;  
C -1 ; WX 500 ; N yacute ; B 14 -218 475 678 ;  
C -1 ; WX 500 ; N udieresis ; B 9 -10 479 623 ;  
C -1 ; WX 750 ; N threequarters ; B 15 -14 718 676 ;  
C -1 ; WX 444 ; N acircumflex ; B 37 -10 442 674 ;  
C -1 ; WX 722 ; N Eth ; B 16 0 685 662 ;  
C -1 ; WX 444 ; N edieresis ; B 25 -10 424 623 ;  
C -1 ; WX 500 ; N ugrave ; B 9 -10 479 678 ;  
C -1 ; WX 980 ; N trademark ; B 30 256 957 662 ;  
C -1 ; WX 500 ; N ograve ; B 29 -10 470 678 ;  
C -1 ; WX 389 ; N scaron ; B 39 -10 350 674 ;  
C -1 ; WX 333 ; N Idieresis ; B 18 0 315 835 ;  
C -1 ; WX 500 ; N uacute ; B 9 -10 479 678 ;  
C -1 ; WX 444 ; N agrave ; B 37 -10 442 678 ;  
C -1 ; WX 500 ; N ntilde ; B 16 0 485 638 ;  
C -1 ; WX 444 ; N aring ; B 37 -10 442 711 ;  
C -1 ; WX 444 ; N zcaron ; B 27 0 418 674 ;  
C -1 ; WX 333 ; N Icircumflex ; B 11 0 322 886 ;  
C -1 ; WX 722 ; N Ntilde ; B 12 -11 707 850 ;  
C -1 ; WX 500 ; N ucircumflex ; B 9 -10 479 674 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 12 0 597 886 ;  
C -1 ; WX 333 ; N Iacute ; B 18 0 317 890 ;  
C -1 ; WX 667 ; N Ccedilla ; B 28 -215 633 676 ;  
C -1 ; WX 722 ; N Odieresis ; B 34 -14 688 835 ;  
C -1 ; WX 556 ; N Scaron ; B 42 -14 491 886 ;  
C -1 ; WX 611 ; N Edieresis ; B 12 0 597 835 ;  
C -1 ; WX 333 ; N Igrave ; B 18 0 315 890 ;  
C -1 ; WX 444 ; N adieresis ; B 37 -10 442 623 ;  
C -1 ; WX 722 ; N Ograve ; B 34 -14 688 890 ;  
C -1 ; WX 611 ; N Egrave ; B 12 0 597 890 ;  
C -1 ; WX 722 ; N Ydieresis ; B 22 0 703 835 ;  
C -1 ; WX 760 ; N registered ; B 38 -14 722 676 ;  
C -1 ; WX 722 ; N Otilde ; B 34 -14 688 850 ;  
C -1 ; WX 750 ; N onequarter ; B 37 -14 718 676 ;  
C -1 ; WX 722 ; N Ugrave ; B 14 -14 705 890 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 14 -14 705 886 ;  
C -1 ; WX 556 ; N Thorn ; B 16 0 542 662 ;  
C -1 ; WX 564 ; N divide ; B 30 -10 534 516 ;  
C -1 ; WX 722 ; N Atilde ; B 15 0 706 850 ;  
C -1 ; WX 722 ; N Uacute ; B 14 -14 705 890 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 34 -14 688 886 ;  
C -1 ; WX 564 ; N logicalnot ; B 30 108 534 386 ;  
C -1 ; WX 722 ; N Aring ; B 15 0 706 898 ;

C -1 ; WX 278 ; N idieresis ; B -9 0 288 623 ;  
C -1 ; WX 278 ; N iacute ; B 16 0 290 678 ;  
C -1 ; WX 444 ; N aacute ; B 37 -10 442 678 ;  
C -1 ; WX 564 ; N plusminus ; B 30 0 534 506 ;  
C -1 ; WX 564 ; N multiply ; B 38 8 527 497 ;  
C -1 ; WX 722 ; N Udieresis ; B 14 -14 705 835 ;  
C -1 ; WX 564 ; N minus ; B 30 220 534 286 ;  
C -1 ; WX 300 ; N onesuperior ; B 57 270 248 676 ;  
C -1 ; WX 611 ; N Eacute ; B 12 0 597 890 ;  
C -1 ; WX 722 ; N Acircumflex ; B 15 0 706 886 ;  
C -1 ; WX 760 ; N copyright ; B 38 -14 722 676 ;  
C -1 ; WX 722 ; N Agrave ; B 15 0 706 890 ;  
C -1 ; WX 500 ; N odieresis ; B 29 -10 470 623 ;  
C -1 ; WX 500 ; N oacute ; B 29 -10 470 678 ;  
C -1 ; WX 400 ; N degree ; B 57 390 343 676 ;  
C -1 ; WX 278 ; N igrave ; B -8 0 253 678 ;  
C -1 ; WX 500 ; N mu ; B 36 -218 512 450 ;  
C -1 ; WX 722 ; N Oacute ; B 34 -14 688 890 ;  
C -1 ; WX 500 ; N eth ; B 29 -10 471 686 ;  
C -1 ; WX 722 ; N Adieresis ; B 15 0 706 835 ;  
C -1 ; WX 722 ; N Yacute ; B 22 0 703 890 ;  
C -1 ; WX 200 ; N brokenbar ; B 67 -14 133 676 ;  
C -1 ; WX 750 ; N onehalf ; B 31 -14 746 676 ;

EndCharMetrics

StartKernData

StartKernPairs 283

KPX A y -92

KPX A w -92

KPX A v -74

KPX A u 0

KPX A quoteright -111

KPX A quotedblright 0

KPX A p 0

KPX A Y -105

KPX A W -90

KPX A V -135

KPX A U -55

KPX A T -111

KPX A Q -55

KPX A O -55

KPX A G -40

KPX A C -40

KPX B period 0

KPX B comma 0

KPX B U -10

KPX B A -35

KPX D period 0  
KPX D comma 0  
KPX D Y -55  
KPX D W -30  
KPX D V -40  
KPX D A -40

KPX F r 0  
KPX F period -80  
KPX F o -15  
KPX F i 0  
KPX F e 0  
KPX F comma -80  
KPX F a -15  
KPX F A -74

KPX G period 0  
KPX G comma 0

KPX J u 0  
KPX J period 0  
KPX J o 0  
KPX J e 0  
KPX J comma 0  
KPX J a 0  
KPX J A -60

KPX K y -25  
KPX K u -15  
KPX K o -35  
KPX K e -25  
KPX K O -30

KPX L y -55  
KPX L quoteright -92  
KPX L quotedblright 0  
KPX L Y -100  
KPX L W -74  
KPX L V -100  
KPX L T -92

KPX N period 0  
KPX N comma 0  
KPX N A -35

KPX O period 0  
KPX O comma 0

KPX O Y -50  
KPX O X -40  
KPX O W -35  
KPX O V -50  
KPX O T -40  
KPX O A -35

KPX P period -111  
KPX P o 0  
KPX P e 0  
KPX P comma -111  
KPX P a -15  
KPX P A -92

KPX Q period 0  
KPX Q comma 0  
KPX Q U -10

KPX R Y -65  
KPX R W -55  
KPX R V -80  
KPX R U -40  
KPX R T -60  
KPX R O -40

KPX S period 0  
KPX S comma 0

KPX T y -80  
KPX T w -80  
KPX T u -45  
KPX T semicolon -55  
KPX T r -35  
KPX T period -74  
KPX T o -80  
KPX T i -35  
KPX T hyphen -92  
KPX T h 0  
KPX T e -70  
KPX T comma -74  
KPX T colon -50  
KPX T a -80  
KPX T O -18  
KPX T A -93

KPX U period 0  
KPX U comma 0  
KPX U A -40

KPX V u -75  
KPX V semicolon -74  
KPX V period -129  
KPX V o -129  
KPX V i -60  
KPX V hyphen -100  
KPX V e -111  
KPX V comma -129  
KPX V colon -74  
KPX V a -111  
KPX V O -40  
KPX V G -15  
KPX V A -135

KPX W y -73  
KPX W u -50  
KPX W semicolon -37  
KPX W period -92  
KPX W o -80  
KPX W i -40  
KPX W hyphen -65  
KPX W h 0  
KPX W e -80  
KPX W comma -92  
KPX W colon -37  
KPX W a -80  
KPX W O -10  
KPX W A -120

KPX Y u -111  
KPX Y semicolon -92  
KPX Y period -129  
KPX Y o -110  
KPX Y i -55  
KPX Y hyphen -111  
KPX Y e -100  
KPX Y comma -129  
KPX Y colon -92  
KPX Y a -100  
KPX Y O -30  
KPX Y A -120

KPX a y 0  
KPX a w -15  
KPX a v -20  
KPX a t 0  
KPX a p 0



KPX a g 0  
KPX a b 0

KPX b y 0  
KPX b v -15  
KPX b u -20  
KPX b period -40  
KPX b l 0  
KPX b comma 0  
KPX b b 0

KPX c y -15  
KPX c period 0  
KPX c l 0  
KPX c k 0  
KPX c h 0  
KPX c comma 0

KPX colon space 0

KPX comma space 0  
KPX comma quoteright -70  
KPX comma quotedblright -70

KPX d y 0  
KPX d w 0  
KPX d v 0  
KPX d period 0  
KPX d d 0  
KPX d comma 0

KPX e y -15  
KPX e x -15  
KPX e w -25  
KPX e v -25  
KPX e period 0  
KPX e p 0  
KPX e g -15  
KPX e comma 0  
KPX e b 0

KPX f quoteright 55  
KPX f quotedblright 0  
KPX f period 0  
KPX f o 0  
KPX f l 0  
KPX f i -20  
KPX f f -25

KPX f e 0  
KPX f dotlessi -50  
KPX f comma 0  
KPX f a -10

KPX g y 0  
KPX g r 0  
KPX g period 0  
KPX g o 0  
KPX g i 0  
KPX g g 0  
KPX g e 0  
KPX g comma 0  
KPX g a -5

KPX h y -5

KPX i v -25

KPX k y -15  
KPX k o -10  
KPX k e -10

KPX l y 0  
KPX l w -10

KPX m y 0  
KPX m u 0

KPX n y -15  
KPX n v -40  
KPX n u 0

KPX o y -10  
KPX o x 0  
KPX o w -25  
KPX o v -15  
KPX o g 0

KPX p y -10

KPX period quoteright -70  
KPX period quotedblright -70

KPX quotedblleft quoteleft 0  
KPX quotedblleft A -80

KPX quotedblright space 0

KPX quoteleft quoteleft -74

KPX quoteleft A -80

KPX quoteright v -50

KPX quoteright t -18

KPX quoteright space -74

KPX quoteright s -55

KPX quoteright r -50

KPX quoteright quoteright -74

KPX quoteright quotedblright 0

KPX quoteright l -10

KPX quoteright d -50

KPX r y 0

KPX r v 0

KPX r u 0

KPX r t 0

KPX r s 0

KPX r r 0

KPX r q 0

KPX r period -55

KPX r p 0

KPX r o 0

KPX r n 0

KPX r m 0

KPX r l 0

KPX r k 0

KPX r i 0

KPX r hyphen -20

KPX r g -18

KPX r e 0

KPX r d 0

KPX r comma -40

KPX r c 0

KPX r a 0

KPX s w 0

KPX space quoteleft 0

KPX space quotedblleft 0

KPX space Y -90

KPX space W -30

KPX space V -50

KPX space T -18

KPX space A -55

KPX v period -65

KPX v o -20  
KPX v e -15  
KPX v comma -65  
KPX v a -25

KPX w period -65  
KPX w o -10  
KPX w h 0  
KPX w e 0  
KPX w comma -65  
KPX w a -10

KPX x e -15

KPX y period -65  
KPX y o 0  
KPX y e 0  
KPX y comma -65  
KPX y a 0

KPX z o 0  
KPX z e 0  
EndKernPairs  
EndKernData  
StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 212 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 212 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 212 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 212 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 185 187 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 212 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 212 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 212 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 212 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 212 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 212 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 0 212 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 0 212 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 212 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 212 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 195 212 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 195 212 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 195 212 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 195 212 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 195 212 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 212 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 212 ;

CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 212 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 195 212 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 212 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 195 212 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 195 212 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 212 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 56 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 56 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 56 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 56 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 56 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 56 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 56 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 56 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 84 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 84 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 84 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 28 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 84 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 84 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 84 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 84 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 84 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 56 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue May 28 16:56:07 1991

Comment UniqueID 35034

Comment VMusage 31030 37922

FontName NewCenturySchlbk-BoldItalic

FullName New Century Schoolbook Bold Italic

FamilyName New Century Schoolbook

Weight Bold

ItalicAngle -16

IsFixedPitch false

FontBBox -205 -250 1147 991  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.007  
Notice Copyright (c) 1985, 1987, 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
EncodingScheme AdobeStandardEncoding  
CapHeight 722  
XHeight 477  
Ascender 737  
Descender -205  
StartCharMetrics 228  
C 32 ; WX 287 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 0 -15 333 737 ;  
C 34 ; WX 400 ; N quotedbl ; B 66 388 428 737 ;  
C 35 ; WX 574 ; N numbersign ; B 30 0 544 690 ;  
C 36 ; WX 574 ; N dollar ; B 9 -120 565 810 ;  
C 37 ; WX 889 ; N percent ; B 54 -28 835 727 ;  
C 38 ; WX 889 ; N ampersand ; B 32 -15 823 737 ;  
C 39 ; WX 259 ; N quoteright ; B 48 388 275 737 ;  
C 40 ; WX 407 ; N parenleft ; B 72 -117 454 745 ;  
C 41 ; WX 407 ; N parenright ; B -70 -117 310 745 ;  
C 42 ; WX 500 ; N asterisk ; B 58 301 498 737 ;  
C 43 ; WX 606 ; N plus ; B 50 0 556 506 ;  
C 44 ; WX 287 ; N comma ; B -57 -192 170 157 ;  
C 45 ; WX 333 ; N hyphen ; B 2 177 263 299 ;  
C 46 ; WX 287 ; N period ; B -20 -15 152 157 ;  
C 47 ; WX 278 ; N slash ; B -41 -15 320 737 ;  
C 48 ; WX 574 ; N zero ; B 21 -15 553 705 ;  
C 49 ; WX 574 ; N one ; B 25 0 489 705 ;  
C 50 ; WX 574 ; N two ; B -38 -3 538 705 ;  
C 51 ; WX 574 ; N three ; B -7 -15 536 705 ;  
C 52 ; WX 574 ; N four ; B -13 0 544 705 ;  
C 53 ; WX 574 ; N five ; B 0 -15 574 705 ;  
C 54 ; WX 574 ; N six ; B 31 -15 574 705 ;  
C 55 ; WX 574 ; N seven ; B 64 -15 593 705 ;  
C 56 ; WX 574 ; N eight ; B 0 -15 552 705 ;  
C 57 ; WX 574 ; N nine ; B 0 -15 543 705 ;  
C 58 ; WX 287 ; N colon ; B -20 -15 237 477 ;  
C 59 ; WX 287 ; N semicolon ; B -57 -192 237 477 ;  
C 60 ; WX 606 ; N less ; B 50 -9 556 515 ;  
C 61 ; WX 606 ; N equal ; B 50 103 556 403 ;  
C 62 ; WX 606 ; N greater ; B 50 -8 556 514 ;  
C 63 ; WX 481 ; N question ; B 79 -15 451 737 ;  
C 64 ; WX 747 ; N at ; B -4 -15 751 737 ;  
C 65 ; WX 741 ; N A ; B -75 0 716 737 ;  
C 66 ; WX 759 ; N B ; B -50 0 721 722 ;  
C 67 ; WX 759 ; N C ; B 37 -15 759 737 ;  
C 68 ; WX 833 ; N D ; B -47 0 796 722 ;

C 69 ; WX 741 ; N E ; B -41 0 730 722 ;  
C 70 ; WX 704 ; N F ; B -41 0 730 722 ;  
C 71 ; WX 815 ; N G ; B 37 -15 805 737 ;  
C 72 ; WX 870 ; N H ; B -41 0 911 722 ;  
C 73 ; WX 444 ; N I ; B -41 0 485 722 ;  
C 74 ; WX 667 ; N J ; B -20 -15 708 722 ;  
C 75 ; WX 778 ; N K ; B -41 0 832 722 ;  
C 76 ; WX 704 ; N L ; B -41 0 670 722 ;  
C 77 ; WX 944 ; N M ; B -44 0 988 722 ;  
C 78 ; WX 852 ; N N ; B -61 -10 913 722 ;  
C 79 ; WX 833 ; N O ; B 37 -15 796 737 ;  
C 80 ; WX 741 ; N P ; B -41 0 730 722 ;  
C 81 ; WX 833 ; N Q ; B 37 -189 796 737 ;  
C 82 ; WX 796 ; N R ; B -41 -15 749 722 ;  
C 83 ; WX 685 ; N S ; B 1 -15 666 737 ;  
C 84 ; WX 722 ; N T ; B 41 0 759 722 ;  
C 85 ; WX 833 ; N U ; B 88 -15 900 722 ;  
C 86 ; WX 741 ; N V ; B 32 -10 802 722 ;  
C 87 ; WX 944 ; N W ; B 40 -10 1000 722 ;  
C 88 ; WX 741 ; N X ; B -82 0 801 722 ;  
C 89 ; WX 704 ; N Y ; B 13 0 775 722 ;  
C 90 ; WX 704 ; N Z ; B -33 0 711 722 ;  
C 91 ; WX 407 ; N bracketleft ; B 1 -109 464 737 ;  
C 92 ; WX 606 ; N backslash ; B 161 -15 445 737 ;  
C 93 ; WX 407 ; N bracketright ; B -101 -109 362 737 ;  
C 94 ; WX 606 ; N asciicircum ; B 66 325 540 690 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 259 ; N quoteleft ; B 47 388 274 737 ;  
C 97 ; WX 667 ; N a ; B 6 -15 636 477 ;  
C 98 ; WX 611 ; N b ; B 29 -15 557 737 ;  
C 99 ; WX 537 ; N c ; B 0 -15 482 477 ;  
C 100 ; WX 667 ; N d ; B 0 -15 660 737 ;  
C 101 ; WX 519 ; N e ; B 0 -15 479 477 ;  
C 102 ; WX 389 ; N f ; B -48 -205 550 737 ; L i f i ; L l f l ;  
C 103 ; WX 611 ; N g ; B -63 -205 604 528 ;  
C 104 ; WX 685 ; N h ; B 0 -15 639 737 ;  
C 105 ; WX 389 ; N i ; B 32 -15 345 737 ;  
C 106 ; WX 370 ; N j ; B -205 -205 347 737 ;  
C 107 ; WX 648 ; N k ; B -11 -15 578 737 ;  
C 108 ; WX 389 ; N l ; B 32 -15 375 737 ;  
C 109 ; WX 944 ; N m ; B 0 -15 909 477 ;  
C 110 ; WX 685 ; N n ; B 0 -15 639 477 ;  
C 111 ; WX 574 ; N o ; B 0 -15 530 477 ;  
C 112 ; WX 648 ; N p ; B -119 -205 590 477 ;  
C 113 ; WX 630 ; N q ; B 0 -205 587 477 ;  
C 114 ; WX 519 ; N r ; B 0 0 527 486 ;  
C 115 ; WX 481 ; N s ; B 0 -15 435 477 ;  
C 116 ; WX 407 ; N t ; B 24 -15 403 650 ;

C 117 ; WX 685 ; N u ; B 30 -15 635 477 ;  
C 118 ; WX 556 ; N v ; B 30 -15 496 477 ;  
C 119 ; WX 833 ; N w ; B 30 -15 773 477 ;  
C 120 ; WX 574 ; N x ; B -46 -15 574 477 ;  
C 121 ; WX 519 ; N y ; B -66 -205 493 477 ;  
C 122 ; WX 519 ; N z ; B -19 -15 473 477 ;  
C 123 ; WX 407 ; N braceleft ; B 52 -109 408 737 ;  
C 124 ; WX 606 ; N bar ; B 249 -250 357 750 ;  
C 125 ; WX 407 ; N braceright ; B -25 -109 331 737 ;  
C 126 ; WX 606 ; N asciitilde ; B 72 160 534 346 ;  
C 161 ; WX 333 ; N exclamdown ; B -44 -205 289 547 ;  
C 162 ; WX 574 ; N cent ; B 30 -144 512 578 ;  
C 163 ; WX 574 ; N sterling ; B -18 -15 566 705 ;  
C 164 ; WX 167 ; N fraction ; B -166 -15 333 705 ;  
C 165 ; WX 574 ; N yen ; B 17 0 629 690 ;  
C 166 ; WX 574 ; N florin ; B -43 -205 575 737 ;  
C 167 ; WX 500 ; N section ; B -30 -146 515 737 ;  
C 168 ; WX 574 ; N currency ; B 27 84 547 605 ;  
C 169 ; WX 287 ; N quotesingle ; B 112 388 250 737 ;  
C 170 ; WX 481 ; N quotedblleft ; B 54 388 521 737 ;  
C 171 ; WX 481 ; N guillemotleft ; B -35 69 449 407 ;  
C 172 ; WX 278 ; N guilsinglleft ; B -25 69 244 407 ;  
C 173 ; WX 278 ; N guilsinglright ; B -26 69 243 407 ;  
C 174 ; WX 685 ; N fi ; B -70 -205 641 737 ;  
C 175 ; WX 685 ; N fl ; B -70 -205 671 737 ;  
C 177 ; WX 500 ; N endash ; B -47 189 479 287 ;  
C 178 ; WX 500 ; N dagger ; B 48 -146 508 737 ;  
C 179 ; WX 500 ; N daggerdbl ; B -60 -150 508 737 ;  
C 180 ; WX 287 ; N periodcentered ; B 57 200 229 372 ;  
C 182 ; WX 650 ; N paragraph ; B 25 -131 681 722 ;  
C 183 ; WX 606 ; N bullet ; B 122 180 484 542 ;  
C 184 ; WX 259 ; N quotesinglbase ; B -57 -192 170 157 ;  
C 185 ; WX 481 ; N quotedblbase ; B -57 -192 412 157 ;  
C 186 ; WX 481 ; N quotedblright ; B 43 388 510 737 ;  
C 187 ; WX 481 ; N guillemotright ; B -31 69 453 407 ;  
C 188 ; WX 1000 ; N ellipsis ; B 81 -15 919 157 ;  
C 189 ; WX 1167 ; N perthousand ; B 20 -28 1147 727 ;  
C 191 ; WX 481 ; N questiondown ; B 0 -205 372 547 ;  
C 193 ; WX 333 ; N grave ; B 74 538 294 722 ;  
C 194 ; WX 333 ; N acute ; B 123 538 372 722 ;  
C 195 ; WX 333 ; N circumflex ; B 23 533 365 705 ;  
C 196 ; WX 333 ; N tilde ; B 28 561 398 690 ;  
C 197 ; WX 333 ; N macron ; B 47 573 404 649 ;  
C 198 ; WX 333 ; N breve ; B 67 535 390 698 ;  
C 199 ; WX 333 ; N dotaccent ; B 145 546 289 690 ;  
C 200 ; WX 333 ; N dieresis ; B 33 546 393 690 ;  
C 202 ; WX 333 ; N ring ; B 111 522 335 746 ;  
C 203 ; WX 333 ; N cedilla ; B -21 -220 225 3 ;



C 205 ; WX 333 ; N hungarumlaut ; B 15 538 480 722 ;  
C 206 ; WX 333 ; N ogonek ; B 68 -155 246 -10 ;  
C 207 ; WX 333 ; N caron ; B 60 531 403 705 ;  
C 208 ; WX 1000 ; N emdash ; B -47 189 979 287 ;  
C 225 ; WX 889 ; N AE ; B -86 0 915 722 ;  
C 227 ; WX 412 ; N ordfeminine ; B 47 407 460 705 ;  
C 232 ; WX 704 ; N Lslash ; B -41 0 670 722 ;  
C 233 ; WX 833 ; N Oslash ; B 35 -68 798 790 ;  
C 234 ; WX 963 ; N OE ; B 29 0 989 722 ;  
C 235 ; WX 356 ; N ordmasculine ; B 42 407 394 705 ;  
C 241 ; WX 815 ; N ae ; B -18 -15 775 477 ;  
C 245 ; WX 389 ; N dotlessi ; B 32 -15 345 477 ;  
C 248 ; WX 389 ; N Islash ; B 5 -15 390 737 ;  
C 249 ; WX 574 ; N oslash ; B 0 -121 530 583 ;  
C 250 ; WX 852 ; N oe ; B -6 -15 812 477 ;  
C 251 ; WX 574 ; N germandbls ; B -91 -205 540 737 ;  
C -1 ; WX 519 ; N ecircumflex ; B 0 -15 479 705 ;  
C -1 ; WX 519 ; N edieresis ; B 0 -15 486 690 ;  
C -1 ; WX 667 ; N aacute ; B 6 -15 636 722 ;  
C -1 ; WX 747 ; N registered ; B -2 -15 750 737 ;  
C -1 ; WX 389 ; N icircumflex ; B 21 -15 363 698 ;  
C -1 ; WX 685 ; N udieresis ; B 30 -15 635 690 ;  
C -1 ; WX 574 ; N ograve ; B 0 -15 530 722 ;  
C -1 ; WX 685 ; N uacute ; B 30 -15 635 722 ;  
C -1 ; WX 685 ; N ucircumflex ; B 30 -15 635 705 ;  
C -1 ; WX 741 ; N Aacute ; B -75 0 716 947 ;  
C -1 ; WX 389 ; N igrave ; B 32 -15 345 715 ;  
C -1 ; WX 444 ; N Icircumflex ; B -41 0 485 930 ;  
C -1 ; WX 537 ; N ccedilla ; B 0 -220 482 477 ;  
C -1 ; WX 667 ; N adieresis ; B 6 -15 636 690 ;  
C -1 ; WX 741 ; N Ecircumflex ; B -41 0 730 930 ;  
C -1 ; WX 481 ; N scaron ; B 0 -15 477 705 ;  
C -1 ; WX 648 ; N thorn ; B -119 -205 590 737 ;  
C -1 ; WX 950 ; N trademark ; B 42 317 1017 722 ;  
C -1 ; WX 519 ; N egrave ; B 0 -15 479 722 ;  
C -1 ; WX 344 ; N threesuperior ; B 3 273 361 705 ;  
C -1 ; WX 519 ; N zcaron ; B -19 -15 473 695 ;  
C -1 ; WX 667 ; N atilde ; B 6 -15 636 690 ;  
C -1 ; WX 667 ; N aring ; B 6 -15 636 746 ;  
C -1 ; WX 574 ; N ocircumflex ; B 0 -15 530 705 ;  
C -1 ; WX 741 ; N Edieresis ; B -41 0 730 915 ;  
C -1 ; WX 861 ; N threequarters ; B 35 -15 789 705 ;  
C -1 ; WX 519 ; N ydieresis ; B -66 -205 493 690 ;  
C -1 ; WX 519 ; N yacute ; B -66 -205 493 722 ;  
C -1 ; WX 389 ; N iacute ; B 32 -15 370 715 ;  
C -1 ; WX 741 ; N Acircumflex ; B -75 0 716 930 ;  
C -1 ; WX 833 ; N Uacute ; B 88 -15 900 947 ;  
C -1 ; WX 519 ; N eacute ; B 0 -15 479 722 ;

C -1 ; WX 833 ; N Ograve ; B 37 -15 796 947 ;  
C -1 ; WX 667 ; N agrave ; B 6 -15 636 722 ;  
C -1 ; WX 833 ; N Udieresis ; B 88 -15 900 915 ;  
C -1 ; WX 667 ; N acircumflex ; B 6 -15 636 705 ;  
C -1 ; WX 444 ; N Igrave ; B -41 0 485 947 ;  
C -1 ; WX 344 ; N twosuperior ; B -17 280 362 705 ;  
C -1 ; WX 833 ; N Ugrave ; B 88 -15 900 947 ;  
C -1 ; WX 861 ; N onequarter ; B 17 -15 789 705 ;  
C -1 ; WX 833 ; N Ucircumflex ; B 88 -15 900 930 ;  
C -1 ; WX 685 ; N Scaron ; B 1 -15 666 930 ;  
C -1 ; WX 444 ; N Idieresis ; B -41 0 509 915 ;  
C -1 ; WX 389 ; N idieresis ; B 31 -15 391 683 ;  
C -1 ; WX 741 ; N Egrave ; B -41 0 730 947 ;  
C -1 ; WX 833 ; N Oacute ; B 37 -15 796 947 ;  
C -1 ; WX 606 ; N divide ; B 50 -40 556 546 ;  
C -1 ; WX 741 ; N Atilde ; B -75 0 716 915 ;  
C -1 ; WX 741 ; N Aring ; B -75 0 716 991 ;  
C -1 ; WX 833 ; N Odieresis ; B 37 -15 796 915 ;  
C -1 ; WX 741 ; N Adieresis ; B -75 0 716 915 ;  
C -1 ; WX 852 ; N Ntilde ; B -61 -10 913 915 ;  
C -1 ; WX 704 ; N Zcaron ; B -33 0 711 930 ;  
C -1 ; WX 741 ; N Thorn ; B -41 0 690 722 ;  
C -1 ; WX 444 ; N Iacute ; B -41 0 488 947 ;  
C -1 ; WX 606 ; N plusminus ; B 50 0 556 506 ;  
C -1 ; WX 606 ; N multiply ; B 65 15 541 491 ;  
C -1 ; WX 741 ; N Eacute ; B -41 0 730 947 ;  
C -1 ; WX 704 ; N Ydieresis ; B 13 0 775 915 ;  
C -1 ; WX 344 ; N onesuperior ; B 19 282 326 705 ;  
C -1 ; WX 685 ; N ugrave ; B 30 -15 635 722 ;  
C -1 ; WX 606 ; N logicalnot ; B 50 103 556 403 ;  
C -1 ; WX 685 ; N ntilde ; B 0 -15 639 690 ;  
C -1 ; WX 833 ; N Otilde ; B 37 -15 796 915 ;  
C -1 ; WX 574 ; N otilde ; B 0 -15 530 690 ;  
C -1 ; WX 759 ; N Ccedilla ; B 37 -220 759 737 ;  
C -1 ; WX 741 ; N Agrave ; B -75 0 716 947 ;  
C -1 ; WX 861 ; N onehalf ; B 17 -15 798 705 ;  
C -1 ; WX 833 ; N Eth ; B -47 0 796 722 ;  
C -1 ; WX 400 ; N degree ; B 86 419 372 705 ;  
C -1 ; WX 704 ; N Yacute ; B 13 0 775 947 ;  
C -1 ; WX 833 ; N Ocircumflex ; B 37 -15 796 930 ;  
C -1 ; WX 574 ; N oacute ; B 0 -15 530 722 ;  
C -1 ; WX 685 ; N mu ; B -89 -205 635 477 ;  
C -1 ; WX 606 ; N minus ; B 50 199 556 307 ;  
C -1 ; WX 574 ; N eth ; B 0 -15 530 752 ;  
C -1 ; WX 574 ; N odieresis ; B 0 -15 530 690 ;  
C -1 ; WX 747 ; N copyright ; B -2 -15 750 737 ;  
C -1 ; WX 606 ; N brokenbar ; B 249 -175 357 675 ;  
EndCharMetrics

StartKernData  
StartKernPairs 239

KPX A y -33  
KPX A w -25  
KPX A v -10  
KPX A u -15  
KPX A quoteright -95  
KPX A quotedblright -95  
KPX A Y -70  
KPX A W -84  
KPX A V -100  
KPX A U -32  
KPX A T 5  
KPX A Q 5  
KPX A O 5  
KPX A G 5  
KPX A C 5

KPX B period 15  
KPX B comma 15  
KPX B U 15  
KPX B A -11

KPX C A -5

KPX D period -11  
KPX D comma -11  
KPX D Y 6  
KPX D W -11  
KPX D V -18

KPX F r -27  
KPX F period -91  
KPX F o -47  
KPX F i -41  
KPX F e -41  
KPX F comma -91  
KPX F a -47  
KPX F A -79

KPX J u -39  
KPX J period -74  
KPX J o -40  
KPX J e -33  
KPX J comma -74  
KPX J a -40  
KPX J A -30

KPX K y -48  
KPX K u -4  
KPX K o -4  
KPX K e 18

KPX L y -30  
KPX L quoteright -100  
KPX L quotedblright -100  
KPX L Y -55  
KPX L W -69  
KPX L V -97  
KPX L T -75

KPX N period -49  
KPX N comma -49

KPX O period -18  
KPX O comma -18  
KPX O X -18  
KPX O W -15  
KPX O V -24  
KPX O A -5

KPX P period -100  
KPX P o -40  
KPX P e -33  
KPX P comma -100  
KPX P a -40  
KPX P A -80

KPX R W -14  
KPX R V -24

KPX S period -18  
KPX S comma -18

KPX T y -30  
KPX T w -30  
KPX T u -22  
KPX T r -9  
KPX T period -55  
KPX T o -40  
KPX T i -22  
KPX T hyphen -75  
KPX T h -9  
KPX T e -33  
KPX T comma -55

KPX T a -40  
KPX T O 11  
KPX T A -60

KPX U period -25  
KPX U comma -25  
KPX U A -42

KPX V u -70  
KPX V semicolon 6  
KPX V period -94  
KPX V o -71  
KPX V i -35  
KPX V hyphen -94  
KPX V e -66  
KPX V comma -94  
KPX V colon -49  
KPX V a -55  
KPX V O -19  
KPX V G -12  
KPX V A -100

KPX W y -41  
KPX W u -25  
KPX W semicolon -22  
KPX W period -86  
KPX W o -33  
KPX W i -27  
KPX W hyphen -61  
KPX W h 5  
KPX W e -39  
KPX W comma -86  
KPX W colon -22  
KPX W a -33  
KPX W O -11  
KPX W A -66

KPX Y u -58  
KPX Y semicolon -55  
KPX Y period -91  
KPX Y o -77  
KPX Y i -22  
KPX Y hyphen -91  
KPX Y e -71  
KPX Y comma -91  
KPX Y colon -55  
KPX Y a -77  
KPX Y A -79

KPX a y -8  
KPX a w -8  
KPX a v 6

KPX b y -6  
KPX b v 8  
KPX b period 6  
KPX b comma 6

KPX c y -20  
KPX c period -8  
KPX c l -13  
KPX c k -8  
KPX c h -18  
KPX c comma -8

KPX colon space -18

KPX comma space -18  
KPX comma quoteright -18  
KPX comma quotedblright -18

KPX d y -15  
KPX d w -15

KPX e y -15  
KPX e x -5  
KPX e w -15  
KPX e p -11  
KPX e g -4  
KPX e b -8

KPX f quoteright 105  
KPX f quotedblright 105  
KPX f period -28  
KPX f o 7  
KPX f l 7  
KPX f i 7  
KPX f e 14  
KPX f dotlessi 7  
KPX f comma -28  
KPX f a 8

KPX g y -11  
KPX g r 11  
KPX g period -5  
KPX g comma -5

KPX h y -20

KPX i v 7

KPX k y -15

KPX k o -22

KPX k e -16

KPX l y -7

KPX l w -7

KPX m y -20

KPX m u -11

KPX n y -20

KPX n v -7

KPX n u -11

KPX o y -11

KPX o w -8

KPX o v 6

KPX p y -4

KPX p period 8

KPX p comma 8

KPX period space -18

KPX period quoteright -18

KPX period quotedblright -18

KPX quotedblleft quoteleft 20

KPX quotedblleft A -60

KPX quotedblright space -18

KPX quoteleft A -80

KPX quoteright v -16

KPX quoteright t -22

KPX quoteright s -46

KPX quoteright r -9

KPX quoteright l -22

KPX quoteright d -41

KPX r y -20

KPX r v -7

KPX r u -11

KPX r t -11  
KPX r semicolon 9  
KPX r s -20  
KPX r quoteright 9  
KPX r period -90  
KPX r p -17  
KPX r o -11  
KPX r l -14  
KPX r k 9  
KPX r i -14  
KPX r hyphen -16  
KPX r g -11  
KPX r e -7  
KPX r d -7  
KPX r comma -90  
KPX r colon 9  
KPX r a -11

KPX s period 11  
KPX s comma 11

KPX semicolon space -18

KPX space quotedblleft -18  
KPX space Y -18  
KPX space W -33  
KPX space V -24  
KPX space T -18  
KPX space A -22

KPX v period -11  
KPX v o -6  
KPX v comma -11  
KPX v a -6

KPX w period -17  
KPX w o -14  
KPX w e -8  
KPX w comma -17  
KPX w a -14

KPX x e 5

KPX y period -25  
KPX y o 8  
KPX y e 15  
KPX y comma -25  
KPX y a 8



KPX z e 4

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 259 225 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 259 225 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 259 225 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 259 225 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 229 245 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 259 225 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 296 225 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 296 225 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 296 225 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 296 225 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 116 225 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 116 225 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 116 225 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 116 225 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 326 225 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 315 225 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 315 225 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 315 225 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 315 225 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 315 225 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 206 225 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 340 225 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 340 225 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 340 225 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 340 225 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 246 225 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 236 225 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 226 225 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 167 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 167 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 167 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 167 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 167 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 167 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 93 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 93 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 93 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 93 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -2 -7 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -2 -7 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -2 -7 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -2 -7 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 176 0 ;

CC oacute 2 ; PCC o 0 0 ; PCC acute 121 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 121 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 121 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 121 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 121 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 74 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 176 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 176 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 176 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 176 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 93 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 93 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 63 -10 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue Jan 21 16:13:29 1992

Comment UniqueID 37831

Comment VMusage 31983 38875

FontName Bookman-Demi

FullName ITC Bookman Demi

FamilyName ITC Bookman

Weight Demi

ItalicAngle 0

IsFixedPitch false

FontBBox -194 -250 1346 934

UnderlinePosition -100

UnderlineThickness 50

Version 001.004

Notice Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved. ITC Bookman is a registered trademark of International Typeface Corporation.

EncodingScheme AdobeStandardEncoding

CapHeight 681

XHeight 502

Ascender 725

Descender -212

StartCharMetrics 228

C 32 ; WX 340 ; N space ; B 0 0 0 0 ;

C 33 ; WX 360 ; N exclam ; B 82 -8 282 698 ;

C 34 ; WX 420 ; N quotedbl ; B 11 379 369 698 ;

C 35 ; WX 660 ; N numbersign ; B 84 0 576 681 ;

C 36 ; WX 660 ; N dollar ; B 48 -119 620 805 ;

C 37 ; WX 940 ; N percent ; B 12 -8 924 698 ;

C 38 ; WX 800 ; N ampersand ; B 21 -17 772 698 ;

C 39 ; WX 320 ; N quoteright ; B 82 440 242 698 ;

C 40 ; WX 320 ; N parenleft ; B 48 -150 289 749 ;

C 41 ; WX 320 ; N parenright ; B 20 -150 262 749 ;

C 42 ; WX 460 ; N asterisk ; B 62 317 405 697 ;  
C 43 ; WX 600 ; N plus ; B 51 9 555 514 ;  
C 44 ; WX 340 ; N comma ; B 78 -124 257 162 ;  
C 45 ; WX 360 ; N hyphen ; B 20 210 340 318 ;  
C 46 ; WX 340 ; N period ; B 76 -8 258 172 ;  
C 47 ; WX 600 ; N slash ; B 50 -149 555 725 ;  
C 48 ; WX 660 ; N zero ; B 30 -17 639 698 ;  
C 49 ; WX 660 ; N one ; B 137 0 568 681 ;  
C 50 ; WX 660 ; N two ; B 41 0 628 698 ;  
C 51 ; WX 660 ; N three ; B 37 -17 631 698 ;  
C 52 ; WX 660 ; N four ; B 19 0 649 681 ;  
C 53 ; WX 660 ; N five ; B 44 -17 623 723 ;  
C 54 ; WX 660 ; N six ; B 34 -17 634 698 ;  
C 55 ; WX 660 ; N seven ; B 36 0 632 681 ;  
C 56 ; WX 660 ; N eight ; B 36 -17 633 698 ;  
C 57 ; WX 660 ; N nine ; B 33 -17 636 698 ;  
C 58 ; WX 340 ; N colon ; B 76 -8 258 515 ;  
C 59 ; WX 340 ; N semicolon ; B 75 -124 259 515 ;  
C 60 ; WX 600 ; N less ; B 49 -9 558 542 ;  
C 61 ; WX 600 ; N equal ; B 51 109 555 421 ;  
C 62 ; WX 600 ; N greater ; B 48 -9 557 542 ;  
C 63 ; WX 660 ; N question ; B 61 -8 608 698 ;  
C 64 ; WX 820 ; N at ; B 60 -17 758 698 ;  
C 65 ; WX 720 ; N A ; B -34 0 763 681 ;  
C 66 ; WX 720 ; N B ; B 20 0 693 681 ;  
C 67 ; WX 740 ; N C ; B 35 -17 724 698 ;  
C 68 ; WX 780 ; N D ; B 20 0 748 681 ;  
C 69 ; WX 720 ; N E ; B 20 0 724 681 ;  
C 70 ; WX 680 ; N F ; B 20 0 686 681 ;  
C 71 ; WX 780 ; N G ; B 35 -17 773 698 ;  
C 72 ; WX 820 ; N H ; B 20 0 800 681 ;  
C 73 ; WX 400 ; N I ; B 20 0 379 681 ;  
C 74 ; WX 640 ; N J ; B -12 -17 622 681 ;  
C 75 ; WX 800 ; N K ; B 20 0 796 681 ;  
C 76 ; WX 640 ; N L ; B 20 0 668 681 ;  
C 77 ; WX 940 ; N M ; B 20 0 924 681 ;  
C 78 ; WX 740 ; N N ; B 20 0 724 681 ;  
C 79 ; WX 800 ; N O ; B 35 -17 769 698 ;  
C 80 ; WX 660 ; N P ; B 20 0 658 681 ;  
C 81 ; WX 800 ; N Q ; B 35 -226 775 698 ;  
C 82 ; WX 780 ; N R ; B 20 0 783 681 ;  
C 83 ; WX 660 ; N S ; B 21 -17 639 698 ;  
C 84 ; WX 700 ; N T ; B -4 0 703 681 ;  
C 85 ; WX 740 ; N U ; B 15 -17 724 681 ;  
C 86 ; WX 720 ; N V ; B -20 0 730 681 ;  
C 87 ; WX 940 ; N W ; B -20 0 963 681 ;  
C 88 ; WX 780 ; N X ; B 1 0 770 681 ;  
C 89 ; WX 700 ; N Y ; B -20 0 718 681 ;

C 90 ; WX 640 ; N Z ; B 6 0 635 681 ;  
C 91 ; WX 300 ; N bracketleft ; B 75 -138 285 725 ;  
C 92 ; WX 600 ; N backslash ; B 50 0 555 725 ;  
C 93 ; WX 300 ; N bracketright ; B 21 -138 231 725 ;  
C 94 ; WX 600 ; N asciicircum ; B 52 281 554 681 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 320 ; N quoteleft ; B 82 440 242 698 ;  
C 97 ; WX 580 ; N a ; B 28 -8 588 515 ;  
C 98 ; WX 600 ; N b ; B -20 -8 568 725 ;  
C 99 ; WX 580 ; N c ; B 31 -8 550 515 ;  
C 100 ; WX 640 ; N d ; B 31 -8 622 725 ;  
C 101 ; WX 580 ; N e ; B 31 -8 548 515 ;  
C 102 ; WX 380 ; N f ; B 22 0 461 741 ; L i fi ; L l fl ;  
C 103 ; WX 580 ; N g ; B 9 -243 583 595 ;  
C 104 ; WX 680 ; N h ; B 22 0 654 725 ;  
C 105 ; WX 360 ; N i ; B 22 0 335 729 ;  
C 106 ; WX 340 ; N j ; B -94 -221 278 729 ;  
C 107 ; WX 660 ; N k ; B 22 0 643 725 ;  
C 108 ; WX 340 ; N l ; B 9 0 322 725 ;  
C 109 ; WX 1000 ; N m ; B 22 0 980 515 ;  
C 110 ; WX 680 ; N n ; B 22 0 652 515 ;  
C 111 ; WX 620 ; N o ; B 31 -8 585 515 ;  
C 112 ; WX 640 ; N p ; B 22 -212 611 515 ;  
C 113 ; WX 620 ; N q ; B 31 -212 633 515 ;  
C 114 ; WX 460 ; N r ; B 22 0 462 502 ;  
C 115 ; WX 520 ; N s ; B 22 -8 492 515 ;  
C 116 ; WX 460 ; N t ; B 22 -8 445 660 ;  
C 117 ; WX 660 ; N u ; B 22 -8 653 502 ;  
C 118 ; WX 600 ; N v ; B -6 0 593 502 ;  
C 119 ; WX 800 ; N w ; B -6 0 810 502 ;  
C 120 ; WX 600 ; N x ; B 8 0 591 502 ;  
C 121 ; WX 620 ; N y ; B 6 -221 613 502 ;  
C 122 ; WX 560 ; N z ; B 22 0 547 502 ;  
C 123 ; WX 320 ; N braceleft ; B 14 -139 301 726 ;  
C 124 ; WX 600 ; N bar ; B 243 -250 362 750 ;  
C 125 ; WX 320 ; N braceright ; B 15 -140 302 725 ;  
C 126 ; WX 600 ; N asciitilde ; B 51 162 555 368 ;  
C 161 ; WX 360 ; N exclamdown ; B 84 -191 284 515 ;  
C 162 ; WX 660 ; N cent ; B 133 17 535 674 ;  
C 163 ; WX 660 ; N sterling ; B 10 -17 659 698 ;  
C 164 ; WX 120 ; N fraction ; B -194 0 312 681 ;  
C 165 ; WX 660 ; N yen ; B -28 0 696 681 ;  
C 166 ; WX 660 ; N florin ; B -46 -209 674 749 ;  
C 167 ; WX 600 ; N section ; B 36 -153 560 698 ;  
C 168 ; WX 660 ; N currency ; B 77 88 584 593 ;  
C 169 ; WX 240 ; N quotesingle ; B 42 379 178 698 ;  
C 170 ; WX 540 ; N quotedblleft ; B 82 439 449 698 ;  
C 171 ; WX 400 ; N guillemotleft ; B 34 101 360 457 ;

C 172 ; WX 220 ; N guilsinglleft ; B 34 101 188 457 ;  
C 173 ; WX 220 ; N guilsinglright ; B 34 101 188 457 ;  
C 174 ; WX 740 ; N fi ; B 22 0 710 741 ;  
C 175 ; WX 740 ; N fl ; B 22 0 710 741 ;  
C 177 ; WX 500 ; N endash ; B -25 212 525 318 ;  
C 178 ; WX 440 ; N dagger ; B 33 -156 398 698 ;  
C 179 ; WX 380 ; N daggerdbl ; B 8 -156 380 698 ;  
C 180 ; WX 340 ; N periodcentered ; B 76 175 258 355 ;  
C 182 ; WX 800 ; N paragraph ; B 51 0 698 681 ;  
C 183 ; WX 460 ; N bullet ; B 60 170 404 511 ;  
C 184 ; WX 320 ; N quotesinglbase ; B 82 -114 242 144 ;  
C 185 ; WX 540 ; N quotedblbase ; B 82 -114 450 144 ;  
C 186 ; WX 540 ; N quotedblright ; B 82 440 449 698 ;  
C 187 ; WX 400 ; N guillemotright ; B 34 101 360 457 ;  
C 188 ; WX 1000 ; N ellipsis ; B 76 -8 924 172 ;  
C 189 ; WX 1360 ; N perthousand ; B 12 -8 1346 698 ;  
C 191 ; WX 660 ; N questiondown ; B 62 -191 609 515 ;  
C 193 ; WX 400 ; N grave ; B 68 547 327 730 ;  
C 194 ; WX 400 ; N acute ; B 68 547 327 731 ;  
C 195 ; WX 500 ; N circumflex ; B 68 555 430 731 ;  
C 196 ; WX 480 ; N tilde ; B 69 556 421 691 ;  
C 197 ; WX 460 ; N macron ; B 68 577 383 663 ;  
C 198 ; WX 500 ; N breve ; B 68 553 429 722 ;  
C 199 ; WX 320 ; N dotaccent ; B 68 536 259 730 ;  
C 200 ; WX 500 ; N dieresis ; B 68 560 441 698 ;  
C 202 ; WX 340 ; N ring ; B 68 552 275 755 ;  
C 203 ; WX 360 ; N cedilla ; B 68 -213 284 0 ;  
C 205 ; WX 440 ; N hungarumlaut ; B 68 554 365 741 ;  
C 206 ; WX 320 ; N ogonek ; B 68 -163 246 0 ;  
C 207 ; WX 500 ; N caron ; B 68 541 430 717 ;  
C 208 ; WX 1000 ; N emdash ; B -25 212 1025 318 ;  
C 225 ; WX 1140 ; N AE ; B -34 0 1149 681 ;  
C 227 ; WX 400 ; N ordfeminine ; B 27 383 396 698 ;  
C 232 ; WX 640 ; N Lslash ; B 20 0 668 681 ;  
C 233 ; WX 800 ; N Oslash ; B 35 -110 771 781 ;  
C 234 ; WX 1220 ; N OE ; B 35 -17 1219 698 ;  
C 235 ; WX 400 ; N ordmasculine ; B 17 383 383 698 ;  
C 241 ; WX 880 ; N ae ; B 28 -8 852 515 ;  
C 245 ; WX 360 ; N dotlessi ; B 22 0 335 502 ;  
C 248 ; WX 340 ; N lslash ; B 9 0 322 725 ;  
C 249 ; WX 620 ; N oslash ; B 31 -40 586 551 ;  
C 250 ; WX 940 ; N oe ; B 31 -8 908 515 ;  
C 251 ; WX 660 ; N germandbls ; B -61 -91 644 699 ;  
C -1 ; WX 580 ; N ecircumflex ; B 31 -8 548 731 ;  
C -1 ; WX 580 ; N edieresis ; B 31 -8 548 698 ;  
C -1 ; WX 580 ; N aacute ; B 28 -8 588 731 ;  
C -1 ; WX 740 ; N registered ; B 23 -17 723 698 ;  
C -1 ; WX 360 ; N icircumflex ; B -2 0 360 731 ;

C -1 ; WX 660 ; N udieresis ; B 22 -8 653 698 ;  
C -1 ; WX 620 ; N ograve ; B 31 -8 585 730 ;  
C -1 ; WX 660 ; N uacute ; B 22 -8 653 731 ;  
C -1 ; WX 660 ; N ucircumflex ; B 22 -8 653 731 ;  
C -1 ; WX 720 ; N Aacute ; B -34 0 763 910 ;  
C -1 ; WX 360 ; N igrave ; B 22 0 335 730 ;  
C -1 ; WX 400 ; N Icircumflex ; B 18 0 380 910 ;  
C -1 ; WX 580 ; N ccedilla ; B 31 -213 550 515 ;  
C -1 ; WX 580 ; N adieresis ; B 28 -8 588 698 ;  
C -1 ; WX 720 ; N Ecircumflex ; B 20 0 724 910 ;  
C -1 ; WX 520 ; N scaron ; B 22 -8 492 717 ;  
C -1 ; WX 640 ; N thorn ; B 22 -212 611 725 ;  
C -1 ; WX 980 ; N trademark ; B 42 277 982 681 ;  
C -1 ; WX 580 ; N egrave ; B 31 -8 548 730 ;  
C -1 ; WX 396 ; N threesuperior ; B 5 269 391 698 ;  
C -1 ; WX 560 ; N zcaron ; B 22 0 547 717 ;  
C -1 ; WX 580 ; N atilde ; B 28 -8 588 691 ;  
C -1 ; WX 580 ; N aring ; B 28 -8 588 755 ;  
C -1 ; WX 620 ; N ocircumflex ; B 31 -8 585 731 ;  
C -1 ; WX 720 ; N Edieresis ; B 20 0 724 877 ;  
C -1 ; WX 990 ; N threequarters ; B 15 0 967 692 ;  
C -1 ; WX 620 ; N ydieresis ; B 6 -221 613 698 ;  
C -1 ; WX 620 ; N yacute ; B 6 -221 613 731 ;  
C -1 ; WX 360 ; N iacute ; B 22 0 335 731 ;  
C -1 ; WX 720 ; N Acircumflex ; B -34 0 763 910 ;  
C -1 ; WX 740 ; N Uacute ; B 15 -17 724 910 ;  
C -1 ; WX 580 ; N eacute ; B 31 -8 548 731 ;  
C -1 ; WX 800 ; N Ograve ; B 35 -17 769 909 ;  
C -1 ; WX 580 ; N agrave ; B 28 -8 588 730 ;  
C -1 ; WX 740 ; N Udieresis ; B 15 -17 724 877 ;  
C -1 ; WX 580 ; N acircumflex ; B 28 -8 588 731 ;  
C -1 ; WX 400 ; N Igrave ; B 20 0 379 909 ;  
C -1 ; WX 396 ; N twosuperior ; B 14 279 396 698 ;  
C -1 ; WX 740 ; N Ugrave ; B 15 -17 724 909 ;  
C -1 ; WX 990 ; N onequarter ; B 65 0 967 681 ;  
C -1 ; WX 740 ; N Ucircumflex ; B 15 -17 724 910 ;  
C -1 ; WX 660 ; N Scaron ; B 21 -17 639 896 ;  
C -1 ; WX 400 ; N Idieresis ; B 18 0 391 877 ;  
C -1 ; WX 360 ; N idieresis ; B -2 0 371 698 ;  
C -1 ; WX 720 ; N Egrave ; B 20 0 724 909 ;  
C -1 ; WX 800 ; N Oacute ; B 35 -17 769 910 ;  
C -1 ; WX 600 ; N divide ; B 51 9 555 521 ;  
C -1 ; WX 720 ; N Atilde ; B -34 0 763 870 ;  
C -1 ; WX 720 ; N Aring ; B -34 0 763 934 ;  
C -1 ; WX 800 ; N Odieresis ; B 35 -17 769 877 ;  
C -1 ; WX 720 ; N Adieresis ; B -34 0 763 877 ;  
C -1 ; WX 740 ; N Ntilde ; B 20 0 724 870 ;  
C -1 ; WX 640 ; N Zcaron ; B 6 0 635 896 ;

C -1 ; WX 660 ; N Thorn ; B 20 0 658 681 ;  
C -1 ; WX 400 ; N Iacute ; B 20 0 379 910 ;  
C -1 ; WX 600 ; N plusminus ; B 51 0 555 514 ;  
C -1 ; WX 600 ; N multiply ; B 48 10 552 514 ;  
C -1 ; WX 720 ; N Eacute ; B 20 0 724 910 ;  
C -1 ; WX 700 ; N Ydieresis ; B -20 0 718 877 ;  
C -1 ; WX 396 ; N onesuperior ; B 65 279 345 687 ;  
C -1 ; WX 660 ; N ugrave ; B 22 -8 653 730 ;  
C -1 ; WX 600 ; N logicalnot ; B 51 129 555 421 ;  
C -1 ; WX 680 ; N tilde ; B 22 0 652 691 ;  
C -1 ; WX 800 ; N Otilde ; B 35 -17 769 870 ;  
C -1 ; WX 620 ; N otilde ; B 31 -8 585 691 ;  
C -1 ; WX 740 ; N Ccedilla ; B 35 -213 724 698 ;  
C -1 ; WX 720 ; N Agrave ; B -34 0 763 909 ;  
C -1 ; WX 990 ; N onehalf ; B 65 0 980 681 ;  
C -1 ; WX 780 ; N Eth ; B 20 0 748 681 ;  
C -1 ; WX 400 ; N degree ; B 50 398 350 698 ;  
C -1 ; WX 700 ; N Yacute ; B -20 0 718 910 ;  
C -1 ; WX 800 ; N Ocircumflex ; B 35 -17 769 910 ;  
C -1 ; WX 620 ; N oacute ; B 31 -8 585 731 ;  
C -1 ; WX 660 ; N mu ; B 22 -221 653 502 ;  
C -1 ; WX 600 ; N minus ; B 51 207 555 323 ;  
C -1 ; WX 620 ; N eth ; B 31 -8 585 741 ;  
C -1 ; WX 620 ; N odieresis ; B 31 -8 585 698 ;  
C -1 ; WX 740 ; N copyright ; B 23 -17 723 698 ;  
C -1 ; WX 600 ; N brokenbar ; B 243 -175 362 675 ;

EndCharMetrics

StartKernData

StartKernPairs 90

KPX A y -1

KPX A w -9

KPX A v -8

KPX A Y -52

KPX A W -20

KPX A V -68

KPX A T -40

KPX F period -132

KPX F comma -130

KPX F A -59

KPX L y 19

KPX L Y -35

KPX L W -41

KPX L V -50

KPX L T -4

KPX P period -128  
KPX P comma -129  
KPX P A -46

KPX R y -8  
KPX R Y -20  
KPX R W -24  
KPX R V -29  
KPX R T -4

KPX T semicolon 5  
KPX T s -10  
KPX T r 27  
KPX T period -122  
KPX T o -28  
KPX T i 27  
KPX T hyphen -10  
KPX T e -29  
KPX T comma -122  
KPX T colon 7  
KPX T c -29  
KPX T a -24  
KPX T A -42

KPX V y 12  
KPX V u -11  
KPX V semicolon -38  
KPX V r -15  
KPX V period -105  
KPX V o -79  
KPX V i 15  
KPX V hyphen -10  
KPX V e -80  
KPX V comma -103  
KPX V colon -37  
KPX V a -74  
KPX V A -88

KPX W y 12  
KPX W u -11  
KPX W semicolon -38  
KPX W r -15  
KPX W period -105  
KPX W o -78  
KPX W i 15  
KPX W hyphen -10  
KPX W e -79  
KPX W comma -103



KPX W colon -37

KPX W a -73

KPX W A -60

KPX Y v 24

KPX Y u -13

KPX Y semicolon -34

KPX Y q -66

KPX Y period -105

KPX Y p -23

KPX Y o -66

KPX Y i 2

KPX Y hyphen -10

KPX Y e -67

KPX Y comma -103

KPX Y colon -32

KPX Y a -60

KPX Y A -56

KPX f f 21

KPX r q -9

KPX r period -102

KPX r o -9

KPX r n 20

KPX r m 20

KPX r hyphen -10

KPX r h -23

KPX r g -9

KPX r f 20

KPX r e -10

KPX r d -10

KPX r comma -101

KPX r c -9

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 179 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 110 179 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 110 179 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 179 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 190 179 ;

CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 179 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 160 179 ;

CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 110 179 ;

CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 110 179 ;

CC Egrave 2 ; PCC E 0 0 ; PCC grave 160 179 ;

CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 179 ;

CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -50 179 ;  
 CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -50 179 ;  
 CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 179 ;  
 CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 179 ;  
 CC Oacute 2 ; PCC O 0 0 ; PCC acute 200 179 ;  
 CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 150 179 ;  
 CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 150 179 ;  
 CC Ograve 2 ; PCC O 0 0 ; PCC grave 200 179 ;  
 CC Otilde 2 ; PCC O 0 0 ; PCC tilde 160 179 ;  
 CC Scaron 2 ; PCC S 0 0 ; PCC caron 80 179 ;  
 CC Uacute 2 ; PCC U 0 0 ; PCC acute 170 179 ;  
 CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 120 179 ;  
 CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 120 179 ;  
 CC Ugrave 2 ; PCC U 0 0 ; PCC grave 170 179 ;  
 CC Yacute 2 ; PCC Y 0 0 ; PCC acute 150 179 ;  
 CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 100 179 ;  
 CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 70 179 ;  
 CC aacute 2 ; PCC a 0 0 ; PCC acute 90 0 ;  
 CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 40 0 ;  
 CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 40 0 ;  
 CC agrave 2 ; PCC a 0 0 ; PCC grave 90 0 ;  
 CC aring 2 ; PCC a 0 0 ; PCC ring 100 0 ;  
 CC atilde 2 ; PCC a 0 0 ; PCC tilde 30 0 ;  
 CC eacute 2 ; PCC e 0 0 ; PCC acute 90 0 ;  
 CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 40 0 ;  
 CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 40 0 ;  
 CC egrave 2 ; PCC e 0 0 ; PCC grave 90 0 ;  
 CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -20 0 ;  
 CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -70 0 ;  
 CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -70 0 ;  
 CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -20 0 ;  
 CC ntilde 2 ; PCC n 0 0 ; PCC tilde 80 0 ;  
 CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;  
 CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 60 0 ;  
 CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 60 0 ;  
 CC ograve 2 ; PCC o 0 0 ; PCC grave 110 0 ;  
 CC otilde 2 ; PCC o 0 0 ; PCC tilde 50 0 ;  
 CC scaron 2 ; PCC s 0 0 ; PCC caron 10 0 ;  
 CC uacute 2 ; PCC u 0 0 ; PCC acute 130 0 ;  
 CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 80 0 ;  
 CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 80 0 ;  
 CC ugrave 2 ; PCC u 0 0 ; PCC grave 130 0 ;  
 CC yacute 2 ; PCC y 0 0 ; PCC acute 110 0 ;  
 CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 60 0 ;  
 CC zcaron 2 ; PCC z 0 0 ; PCC caron 30 0 ;  
 EndComposites  
 EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.

Comment Creation Date: Thu Mar 15 11:04:57 1990

Comment UniqueID 28380

Comment VMusage 7572 42473

FontName Helvetica-Narrow

FullName Helvetica Narrow

FamilyName Helvetica

Weight Medium

ItalicAngle 0

IsFixedPitch false

FontBBox -136 -225 820 931

UnderlinePosition -100

UnderlineThickness 50

Version 001.006

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 228 ; N space ; B 0 0 0 0 ;

C 33 ; WX 228 ; N exclam ; B 74 0 153 718 ;

C 34 ; WX 291 ; N quotedbl ; B 57 463 234 718 ;

C 35 ; WX 456 ; N numbersign ; B 23 0 434 688 ;

C 36 ; WX 456 ; N dollar ; B 26 -115 426 775 ;

C 37 ; WX 729 ; N percent ; B 32 -19 697 703 ;

C 38 ; WX 547 ; N ampersand ; B 36 -15 529 718 ;

C 39 ; WX 182 ; N quoteright ; B 43 463 129 718 ;

C 40 ; WX 273 ; N parenleft ; B 56 -207 245 733 ;

C 41 ; WX 273 ; N parenright ; B 28 -207 217 733 ;

C 42 ; WX 319 ; N asterisk ; B 32 431 286 718 ;

C 43 ; WX 479 ; N plus ; B 32 0 447 505 ;

C 44 ; WX 228 ; N comma ; B 71 -147 157 106 ;

C 45 ; WX 273 ; N hyphen ; B 36 232 237 322 ;

C 46 ; WX 228 ; N period ; B 71 0 157 106 ;

C 47 ; WX 228 ; N slash ; B -14 -19 242 737 ;

C 48 ; WX 456 ; N zero ; B 30 -19 426 703 ;

C 49 ; WX 456 ; N one ; B 83 0 294 703 ;

C 50 ; WX 456 ; N two ; B 21 0 416 703 ;

C 51 ; WX 456 ; N three ; B 28 -19 428 703 ;

C 52 ; WX 456 ; N four ; B 20 0 429 703 ;

C 53 ; WX 456 ; N five ; B 26 -19 421 688 ;

C 54 ; WX 456 ; N six ; B 31 -19 425 703 ;

C 55 ; WX 456 ; N seven ; B 30 0 429 688 ;

C 56 ; WX 456 ; N eight ; B 31 -19 424 703 ;

C 57 ; WX 456 ; N nine ; B 34 -19 421 703 ;  
C 58 ; WX 228 ; N colon ; B 71 0 157 516 ;  
C 59 ; WX 228 ; N semicolon ; B 71 -147 157 516 ;  
C 60 ; WX 479 ; N less ; B 39 11 440 495 ;  
C 61 ; WX 479 ; N equal ; B 32 115 447 390 ;  
C 62 ; WX 479 ; N greater ; B 39 11 440 495 ;  
C 63 ; WX 456 ; N question ; B 46 0 403 727 ;  
C 64 ; WX 832 ; N at ; B 121 -19 712 737 ;  
C 65 ; WX 547 ; N A ; B 11 0 536 718 ;  
C 66 ; WX 547 ; N B ; B 61 0 514 718 ;  
C 67 ; WX 592 ; N C ; B 36 -19 558 737 ;  
C 68 ; WX 592 ; N D ; B 66 0 553 718 ;  
C 69 ; WX 547 ; N E ; B 71 0 505 718 ;  
C 70 ; WX 501 ; N F ; B 71 0 478 718 ;  
C 71 ; WX 638 ; N G ; B 39 -19 577 737 ;  
C 72 ; WX 592 ; N H ; B 63 0 530 718 ;  
C 73 ; WX 228 ; N I ; B 75 0 154 718 ;  
C 74 ; WX 410 ; N J ; B 14 -19 351 718 ;  
C 75 ; WX 547 ; N K ; B 62 0 544 718 ;  
C 76 ; WX 456 ; N L ; B 62 0 440 718 ;  
C 77 ; WX 683 ; N M ; B 60 0 624 718 ;  
C 78 ; WX 592 ; N N ; B 62 0 530 718 ;  
C 79 ; WX 638 ; N O ; B 32 -19 606 737 ;  
C 80 ; WX 547 ; N P ; B 71 0 510 718 ;  
C 81 ; WX 638 ; N Q ; B 32 -56 606 737 ;  
C 82 ; WX 592 ; N R ; B 72 0 561 718 ;  
C 83 ; WX 547 ; N S ; B 40 -19 508 737 ;  
C 84 ; WX 501 ; N T ; B 11 0 490 718 ;  
C 85 ; WX 592 ; N U ; B 65 -19 528 718 ;  
C 86 ; WX 547 ; N V ; B 16 0 531 718 ;  
C 87 ; WX 774 ; N W ; B 13 0 761 718 ;  
C 88 ; WX 547 ; N X ; B 16 0 531 718 ;  
C 89 ; WX 547 ; N Y ; B 11 0 535 718 ;  
C 90 ; WX 501 ; N Z ; B 19 0 482 718 ;  
C 91 ; WX 228 ; N bracketleft ; B 52 -196 205 722 ;  
C 92 ; WX 228 ; N backslash ; B -14 -19 242 737 ;  
C 93 ; WX 228 ; N bracketright ; B 23 -196 176 722 ;  
C 94 ; WX 385 ; N asciicircum ; B -11 264 396 688 ;  
C 95 ; WX 456 ; N underscore ; B 0 -125 456 -75 ;  
C 96 ; WX 182 ; N quoteleft ; B 53 470 139 725 ;  
C 97 ; WX 456 ; N a ; B 30 -15 435 538 ;  
C 98 ; WX 456 ; N b ; B 48 -15 424 718 ;  
C 99 ; WX 410 ; N c ; B 25 -15 391 538 ;  
C 100 ; WX 456 ; N d ; B 29 -15 409 718 ;  
C 101 ; WX 456 ; N e ; B 33 -15 423 538 ;  
C 102 ; WX 228 ; N f ; B 11 0 215 728 ; L i fi ; L l fl ;  
C 103 ; WX 456 ; N g ; B 33 -220 409 538 ;  
C 104 ; WX 456 ; N h ; B 53 0 403 718 ;

C 105 ; WX 182 ; N i ; B 55 0 127 718 ;  
C 106 ; WX 182 ; N j ; B -13 -210 127 718 ;  
C 107 ; WX 410 ; N k ; B 55 0 411 718 ;  
C 108 ; WX 182 ; N l ; B 55 0 127 718 ;  
C 109 ; WX 683 ; N m ; B 53 0 631 538 ;  
C 110 ; WX 456 ; N n ; B 53 0 403 538 ;  
C 111 ; WX 456 ; N o ; B 29 -14 427 538 ;  
C 112 ; WX 456 ; N p ; B 48 -207 424 538 ;  
C 113 ; WX 456 ; N q ; B 29 -207 405 538 ;  
C 114 ; WX 273 ; N r ; B 63 0 272 538 ;  
C 115 ; WX 410 ; N s ; B 26 -15 380 538 ;  
C 116 ; WX 228 ; N t ; B 11 -7 211 669 ;  
C 117 ; WX 456 ; N u ; B 56 -15 401 523 ;  
C 118 ; WX 410 ; N v ; B 7 0 403 523 ;  
C 119 ; WX 592 ; N w ; B 11 0 581 523 ;  
C 120 ; WX 410 ; N x ; B 9 0 402 523 ;  
C 121 ; WX 410 ; N y ; B 9 -214 401 523 ;  
C 122 ; WX 410 ; N z ; B 25 0 385 523 ;  
C 123 ; WX 274 ; N braceleft ; B 34 -196 239 722 ;  
C 124 ; WX 213 ; N bar ; B 77 -19 137 737 ;  
C 125 ; WX 274 ; N braceright ; B 34 -196 239 722 ;  
C 126 ; WX 479 ; N asciitilde ; B 50 180 429 326 ;  
C 161 ; WX 273 ; N exclamdown ; B 97 -195 176 523 ;  
C 162 ; WX 456 ; N cent ; B 42 -115 421 623 ;  
C 163 ; WX 456 ; N sterling ; B 27 -16 442 718 ;  
C 164 ; WX 137 ; N fraction ; B -136 -19 273 703 ;  
C 165 ; WX 456 ; N yen ; B 2 0 453 688 ;  
C 166 ; WX 456 ; N florin ; B -9 -207 411 737 ;  
C 167 ; WX 456 ; N section ; B 35 -191 420 737 ;  
C 168 ; WX 456 ; N currency ; B 23 99 433 603 ;  
C 169 ; WX 157 ; N quotesingle ; B 48 463 108 718 ;  
C 170 ; WX 273 ; N quotedblleft ; B 31 470 252 725 ;  
C 171 ; WX 456 ; N guillemotleft ; B 80 108 376 446 ;  
C 172 ; WX 273 ; N guilsinglleft ; B 72 108 201 446 ;  
C 173 ; WX 273 ; N guilsinglright ; B 72 108 201 446 ;  
C 174 ; WX 410 ; N fi ; B 11 0 356 728 ;  
C 175 ; WX 410 ; N fl ; B 11 0 354 728 ;  
C 177 ; WX 456 ; N endash ; B 0 240 456 313 ;  
C 178 ; WX 456 ; N dagger ; B 35 -159 421 718 ;  
C 179 ; WX 456 ; N daggerdbl ; B 35 -159 421 718 ;  
C 180 ; WX 228 ; N periodcentered ; B 63 190 166 315 ;  
C 182 ; WX 440 ; N paragraph ; B 15 -173 408 718 ;  
C 183 ; WX 287 ; N bullet ; B 15 202 273 517 ;  
C 184 ; WX 182 ; N quotesinglbase ; B 43 -149 129 106 ;  
C 185 ; WX 273 ; N quotedblbase ; B 21 -149 242 106 ;  
C 186 ; WX 273 ; N quotedblright ; B 21 463 242 718 ;  
C 187 ; WX 456 ; N guillemotright ; B 80 108 376 446 ;  
C 188 ; WX 820 ; N ellipsis ; B 94 0 726 106 ;

C 189 ; WX 820 ; N perthousand ; B 6 -19 815 703 ;  
C 191 ; WX 501 ; N questiondown ; B 75 -201 432 525 ;  
C 193 ; WX 273 ; N grave ; B 11 593 173 734 ;  
C 194 ; WX 273 ; N acute ; B 100 593 262 734 ;  
C 195 ; WX 273 ; N circumflex ; B 17 593 256 734 ;  
C 196 ; WX 273 ; N tilde ; B -3 606 276 722 ;  
C 197 ; WX 273 ; N macron ; B 8 627 265 684 ;  
C 198 ; WX 273 ; N breve ; B 11 595 263 731 ;  
C 199 ; WX 273 ; N dotaccent ; B 99 604 174 706 ;  
C 200 ; WX 273 ; N dieresis ; B 33 604 240 706 ;  
C 202 ; WX 273 ; N ring ; B 61 572 212 756 ;  
C 203 ; WX 273 ; N cedilla ; B 37 -225 212 0 ;  
C 205 ; WX 273 ; N hungarumlaut ; B 25 593 335 734 ;  
C 206 ; WX 273 ; N ogonek ; B 60 -225 235 0 ;  
C 207 ; WX 273 ; N caron ; B 17 593 256 734 ;  
C 208 ; WX 820 ; N emdash ; B 0 240 820 313 ;  
C 225 ; WX 820 ; N AE ; B 7 0 780 718 ;  
C 227 ; WX 303 ; N ordfeminine ; B 20 304 284 737 ;  
C 232 ; WX 456 ; N Lslash ; B -16 0 440 718 ;  
C 233 ; WX 638 ; N Oslash ; B 32 -19 607 737 ;  
C 234 ; WX 820 ; N OE ; B 30 -19 791 737 ;  
C 235 ; WX 299 ; N ordmasculine ; B 20 304 280 737 ;  
C 241 ; WX 729 ; N ae ; B 30 -15 695 538 ;  
C 245 ; WX 228 ; N dotlessi ; B 78 0 150 523 ;  
C 248 ; WX 182 ; N lslash ; B -16 0 198 718 ;  
C 249 ; WX 501 ; N oslash ; B 23 -22 440 545 ;  
C 250 ; WX 774 ; N oe ; B 29 -15 740 538 ;  
C 251 ; WX 501 ; N germandbls ; B 55 -15 468 728 ;  
C -1 ; WX 501 ; N Zcaron ; B 19 0 482 929 ;  
C -1 ; WX 410 ; N ccedilla ; B 25 -225 391 538 ;  
C -1 ; WX 410 ; N ydieresis ; B 9 -214 401 706 ;  
C -1 ; WX 456 ; N atilde ; B 30 -15 435 722 ;  
C -1 ; WX 228 ; N icircumflex ; B -5 0 234 734 ;  
C -1 ; WX 273 ; N threesuperior ; B 4 270 266 703 ;  
C -1 ; WX 456 ; N ecircumflex ; B 33 -15 423 734 ;  
C -1 ; WX 456 ; N thorn ; B 48 -207 424 718 ;  
C -1 ; WX 456 ; N egrave ; B 33 -15 423 734 ;  
C -1 ; WX 273 ; N twosuperior ; B 3 281 265 703 ;  
C -1 ; WX 456 ; N eacute ; B 33 -15 423 734 ;  
C -1 ; WX 456 ; N otilde ; B 29 -14 427 722 ;  
C -1 ; WX 547 ; N Aacute ; B 11 0 536 929 ;  
C -1 ; WX 456 ; N ocircumflex ; B 29 -14 427 734 ;  
C -1 ; WX 410 ; N yacute ; B 9 -214 401 734 ;  
C -1 ; WX 456 ; N udieresis ; B 56 -15 401 706 ;  
C -1 ; WX 684 ; N threequarters ; B 37 -19 664 703 ;  
C -1 ; WX 456 ; N acircumflex ; B 30 -15 435 734 ;  
C -1 ; WX 592 ; N Eth ; B 0 0 553 718 ;  
C -1 ; WX 456 ; N edieresis ; B 33 -15 423 706 ;

C -1 ; WX 456 ; N ugrave ; B 56 -15 401 734 ;  
C -1 ; WX 820 ; N trademark ; B 38 306 740 718 ;  
C -1 ; WX 456 ; N ograve ; B 29 -14 427 734 ;  
C -1 ; WX 410 ; N scaron ; B 26 -15 380 734 ;  
C -1 ; WX 228 ; N Idieresis ; B 11 0 218 901 ;  
C -1 ; WX 456 ; N uacute ; B 56 -15 401 734 ;  
C -1 ; WX 456 ; N agrave ; B 30 -15 435 734 ;  
C -1 ; WX 456 ; N tilde ; B 53 0 403 722 ;  
C -1 ; WX 456 ; N aring ; B 30 -15 435 756 ;  
C -1 ; WX 410 ; N zcaron ; B 25 0 385 734 ;  
C -1 ; WX 228 ; N Icircumflex ; B -5 0 234 929 ;  
C -1 ; WX 592 ; N Ntilde ; B 62 0 530 917 ;  
C -1 ; WX 456 ; N ucircumflex ; B 56 -15 401 734 ;  
C -1 ; WX 547 ; N Ecircumflex ; B 71 0 505 929 ;  
C -1 ; WX 228 ; N Iacute ; B 75 0 239 929 ;  
C -1 ; WX 592 ; N Ccedilla ; B 36 -225 558 737 ;  
C -1 ; WX 638 ; N Odieresis ; B 32 -19 606 901 ;  
C -1 ; WX 547 ; N Scaron ; B 40 -19 508 929 ;  
C -1 ; WX 547 ; N Edieresis ; B 71 0 505 901 ;  
C -1 ; WX 228 ; N Igrave ; B -11 0 154 929 ;  
C -1 ; WX 456 ; N adieresis ; B 30 -15 435 706 ;  
C -1 ; WX 638 ; N Ograve ; B 32 -19 606 929 ;  
C -1 ; WX 547 ; N Egrave ; B 71 0 505 929 ;  
C -1 ; WX 547 ; N Ydieresis ; B 11 0 535 901 ;  
C -1 ; WX 604 ; N registered ; B -11 -19 617 737 ;  
C -1 ; WX 638 ; N Otilde ; B 32 -19 606 917 ;  
C -1 ; WX 684 ; N onequarter ; B 60 -19 620 703 ;  
C -1 ; WX 592 ; N Ugrave ; B 65 -19 528 929 ;  
C -1 ; WX 592 ; N Ucircumflex ; B 65 -19 528 929 ;  
C -1 ; WX 547 ; N Thorn ; B 71 0 510 718 ;  
C -1 ; WX 479 ; N divide ; B 32 -19 447 524 ;  
C -1 ; WX 547 ; N Atilde ; B 11 0 536 917 ;  
C -1 ; WX 592 ; N Uacute ; B 65 -19 528 929 ;  
C -1 ; WX 638 ; N Ocircumflex ; B 32 -19 606 929 ;  
C -1 ; WX 479 ; N logicalnot ; B 32 108 447 390 ;  
C -1 ; WX 547 ; N Aring ; B 11 0 536 931 ;  
C -1 ; WX 228 ; N idieresis ; B 11 0 218 706 ;  
C -1 ; WX 228 ; N iacute ; B 78 0 239 734 ;  
C -1 ; WX 456 ; N aacute ; B 30 -15 435 734 ;  
C -1 ; WX 479 ; N plusminus ; B 32 0 447 506 ;  
C -1 ; WX 479 ; N multiply ; B 32 0 447 506 ;  
C -1 ; WX 592 ; N Udieresis ; B 65 -19 528 901 ;  
C -1 ; WX 479 ; N minus ; B 32 216 447 289 ;  
C -1 ; WX 273 ; N onesuperior ; B 35 281 182 703 ;  
C -1 ; WX 547 ; N Eacute ; B 71 0 505 929 ;  
C -1 ; WX 547 ; N Acircumflex ; B 11 0 536 929 ;  
C -1 ; WX 604 ; N copyright ; B -11 -19 617 737 ;  
C -1 ; WX 547 ; N Agrave ; B 11 0 536 929 ;

C -1 ; WX 456 ; N odieresis ; B 29 -14 427 706 ;  
C -1 ; WX 456 ; N oacute ; B 29 -14 427 734 ;  
C -1 ; WX 328 ; N degree ; B 44 411 284 703 ;  
C -1 ; WX 228 ; N igrave ; B -11 0 151 734 ;  
C -1 ; WX 456 ; N mu ; B 56 -207 401 523 ;  
C -1 ; WX 638 ; N Oacute ; B 32 -19 606 929 ;  
C -1 ; WX 456 ; N eth ; B 29 -15 428 737 ;  
C -1 ; WX 547 ; N Adieresis ; B 11 0 536 901 ;  
C -1 ; WX 547 ; N Yacute ; B 11 0 535 929 ;  
C -1 ; WX 213 ; N brokenbar ; B 77 -19 137 737 ;  
C -1 ; WX 684 ; N onehalf ; B 35 -19 634 703 ;

EndCharMetrics

StartKernData

StartKernPairs 250

KPX A y -32

KPX A w -32

KPX A v -32

KPX A u -24

KPX A Y -81

KPX A W -40

KPX A V -56

KPX A U -40

KPX A T -97

KPX A Q -24

KPX A O -24

KPX A G -24

KPX A C -24

KPX B period -15

KPX B comma -15

KPX B U -7

KPX C period -24

KPX C comma -24

KPX D period -56

KPX D comma -56

KPX D Y -73

KPX D W -32

KPX D V -56

KPX D A -32

KPX F r -36

KPX F period -122

KPX F o -24

KPX F e -24

KPX F comma -122



KPX F a -40  
KPX F A -65

KPX J u -15  
KPX J period -24  
KPX J comma -24  
KPX J a -15  
KPX J A -15

KPX K y -40  
KPX K u -24  
KPX K o -32  
KPX K e -32  
KPX K O -40

KPX L y -24  
KPX L quoteright -130  
KPX L quotedblright -114  
KPX L Y -114  
KPX L W -56  
KPX L V -89  
KPX L T -89

KPX O period -32  
KPX O comma -32  
KPX O Y -56  
KPX O X -48  
KPX O W -24  
KPX O V -40  
KPX O T -32  
KPX O A -15

KPX P period -147  
KPX P o -40  
KPX P e -40  
KPX P comma -147  
KPX P a -32  
KPX P A -97

KPX Q U -7

KPX R Y -40  
KPX R W -24  
KPX R V -40  
KPX R U -32  
KPX R T -24  
KPX R O -15

KPX S period -15  
KPX S comma -15

KPX T y -97  
KPX T w -97  
KPX T u -97  
KPX T semicolon -15  
KPX T r -97  
KPX T period -97  
KPX T o -97  
KPX T hyphen -114  
KPX T e -97  
KPX T comma -97  
KPX T colon -15  
KPX T a -97  
KPX T O -32  
KPX T A -97

KPX U period -32  
KPX U comma -32  
KPX U A -32

KPX V u -56  
KPX V semicolon -32  
KPX V period -102  
KPX V o -65  
KPX V hyphen -65  
KPX V e -65  
KPX V comma -102  
KPX V colon -32  
KPX V a -56  
KPX V O -32  
KPX V G -32  
KPX V A -65

KPX W y -15  
KPX W u -24  
KPX W period -65  
KPX W o -24  
KPX W hyphen -32  
KPX W e -24  
KPX W comma -65  
KPX W a -32  
KPX W O -15  
KPX W A -40

KPX Y u -89  
KPX Y semicolon -48

KPX Y period -114  
KPX Y o -114  
KPX Y i -15  
KPX Y hyphen -114  
KPX Y e -114  
KPX Y comma -114  
KPX Y colon -48  
KPX Y a -114  
KPX Y O -69  
KPX Y A -89

KPX a y -24  
KPX a w -15  
KPX a v -15

KPX b y -15  
KPX b v -15  
KPX b u -15  
KPX b period -32  
KPX b l -15  
KPX b comma -32  
KPX b b -7

KPX c k -15  
KPX c comma -11

KPX colon space -40

KPX comma quoteright -81  
KPX comma quotedblright -81

KPX e y -15  
KPX e x -24  
KPX e w -15  
KPX e v -24  
KPX e period -11  
KPX e comma -11

KPX f quoteright 41  
KPX f quotedblright 49  
KPX f period -24  
KPX f o -24  
KPX f e -24  
KPX f dotlessi -22  
KPX f comma -24  
KPX f a -24

KPX g r -7

KPX h y -24

KPX k o -15

KPX k e -15

KPX m y -11

KPX m u -7

KPX n y -11

KPX n v -15

KPX n u -7

KPX o y -24

KPX o x -24

KPX o w -11

KPX o v -11

KPX o period -32

KPX o comma -32

KPX oslash z -44

KPX oslash y -56

KPX oslash x -69

KPX oslash w -56

KPX oslash v -56

KPX oslash u -44

KPX oslash t -44

KPX oslash s -44

KPX oslash r -44

KPX oslash q -44

KPX oslash period -77

KPX oslash p -44

KPX oslash o -44

KPX oslash n -44

KPX oslash m -44

KPX oslash l -44

KPX oslash k -44

KPX oslash j -44

KPX oslash i -44

KPX oslash h -44

KPX oslash g -44

KPX oslash f -44

KPX oslash e -44

KPX oslash d -44

KPX oslash comma -77

KPX oslash c -44

KPX oslash b -44

KPX oslash a -44

KPX p y -24  
KPX p period -28  
KPX p comma -28

KPX period space -48  
KPX period quoteright -81  
KPX period quotedblright -81

KPX quotedblright space -32

KPX quoteleft quoteleft -46

KPX quoteright space -56  
KPX quoteright s -40  
KPX quoteright r -40  
KPX quoteright quoteright -46  
KPX quoteright d -40

KPX r y 25  
KPX r v 25  
KPX r u 12  
KPX r t 33  
KPX r semicolon 25  
KPX r period -40  
KPX r p 25  
KPX r n 21  
KPX r m 21  
KPX r l 12  
KPX r k 12  
KPX r i 12  
KPX r comma -40  
KPX r colon 25  
KPX r a -7

KPX s w -24  
KPX s period -11  
KPX s comma -11

KPX semicolon space -40

KPX space quoteleft -48  
KPX space quotedblleft -24  
KPX space Y -73  
KPX space W -32  
KPX space V -40  
KPX space T -40

KPX v period -65

KPX v o -20

KPX v e -20

KPX v comma -65

KPX v a -20

KPX w period -48

KPX w o -7

KPX w e -7

KPX w comma -48

KPX w a -11

KPX x e -24

KPX y period -81

KPX y o -15

KPX y e -15

KPX y comma -81

KPX y a -15

KPX z o -11

KPX z e -11

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 137 195 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 137 195 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 137 195 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave 137 195 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 137 175 ;

CC Atilde 2 ; PCC A 0 0 ; PCC tilde 137 195 ;

CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 137 195 ;

CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 137 195 ;

CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 137 195 ;

CC Egrave 2 ; PCC E 0 0 ; PCC grave 137 195 ;

CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 195 ;

CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -22 195 ;

CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -22 195 ;

CC Igrave 2 ; PCC I 0 0 ; PCC grave -22 195 ;

CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 168 195 ;

CC Oacute 2 ; PCC O 0 0 ; PCC acute 183 195 ;

CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 183 195 ;

CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 183 195 ;

CC Ograve 2 ; PCC O 0 0 ; PCC grave 183 195 ;

CC Otilde 2 ; PCC O 0 0 ; PCC tilde 183 195 ;

CC Scaron 2 ; PCC S 0 0 ; PCC caron 137 195 ;

CC Uacute 2 ; PCC U 0 0 ; PCC acute 160 195 ;

CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 160 195 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 160 195 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 160 195 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 137 195 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 137 195 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 114 195 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -22 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -22 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -22 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 84 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 92 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 92 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 92 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 92 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 92 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 69 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 92 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 92 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 92 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 92 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 69 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 69 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 69 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jul 2 22:14:17 1990

Comment UniqueID 31790

Comment VMusage 36445 47337

FontName Palatino-Roman

FullName Palatino Roman

FamilyName Palatino

Weight Roman

ItalicAngle 0

IsFixedPitch false

FontBBox -166 -283 1021 927

UnderlinePosition -100

UnderlineThickness 50

Version 001.005

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Palatino is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 692

XHeight 469

Ascender 726

Descender -281

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 278 ; N exclam ; B 81 -5 197 694 ;

C 34 ; WX 371 ; N quotedbl ; B 52 469 319 709 ;

C 35 ; WX 500 ; N numbersign ; B 4 0 495 684 ;

C 36 ; WX 500 ; N dollar ; B 30 -116 471 731 ;

C 37 ; WX 840 ; N percent ; B 39 -20 802 709 ;

C 38 ; WX 778 ; N ampersand ; B 43 -20 753 689 ;

C 39 ; WX 278 ; N quoteright ; B 45 446 233 709 ;

C 40 ; WX 333 ; N parenleft ; B 60 -215 301 726 ;

C 41 ; WX 333 ; N parenright ; B 32 -215 273 726 ;

C 42 ; WX 389 ; N asterisk ; B 32 342 359 689 ;

C 43 ; WX 606 ; N plus ; B 51 7 555 512 ;

C 44 ; WX 250 ; N comma ; B 16 -155 218 123 ;

C 45 ; WX 333 ; N hyphen ; B 17 215 312 287 ;

C 46 ; WX 250 ; N period ; B 67 -5 183 111 ;

C 47 ; WX 606 ; N slash ; B 87 -119 519 726 ;

C 48 ; WX 500 ; N zero ; B 29 -20 465 689 ;

C 49 ; WX 500 ; N one ; B 60 -3 418 694 ;

C 50 ; WX 500 ; N two ; B 16 -3 468 689 ;

C 51 ; WX 500 ; N three ; B 15 -20 462 689 ;

C 52 ; WX 500 ; N four ; B 2 -3 472 694 ;

C 53 ; WX 500 ; N five ; B 13 -20 459 689 ;

C 54 ; WX 500 ; N six ; B 32 -20 468 689 ;

C 55 ; WX 500 ; N seven ; B 44 -3 497 689 ;

C 56 ; WX 500 ; N eight ; B 30 -20 464 689 ;

C 57 ; WX 500 ; N nine ; B 20 -20 457 689 ;

C 58 ; WX 250 ; N colon ; B 66 -5 182 456 ;

C 59 ; WX 250 ; N semicolon ; B 16 -153 218 456 ;

C 60 ; WX 606 ; N less ; B 57 0 558 522 ;

C 61 ; WX 606 ; N equal ; B 51 136 555 386 ;

C 62 ; WX 606 ; N greater ; B 48 0 549 522 ;

C 63 ; WX 444 ; N question ; B 43 -5 395 694 ;

C 64 ; WX 747 ; N at ; B 24 -20 724 694 ;

C 65 ; WX 778 ; N A ; B 15 -3 756 700 ;

C 66 ; WX 611 ; N B ; B 26 -3 576 692 ;

C 67 ; WX 709 ; N C ; B 22 -20 670 709 ;



C 68 ; WX 774 ; N D ; B 22 -3 751 692 ;  
C 69 ; WX 611 ; N E ; B 22 -3 572 692 ;  
C 70 ; WX 556 ; N F ; B 22 -3 536 692 ;  
C 71 ; WX 763 ; N G ; B 22 -20 728 709 ;  
C 72 ; WX 832 ; N H ; B 22 -3 810 692 ;  
C 73 ; WX 337 ; N I ; B 22 -3 315 692 ;  
C 74 ; WX 333 ; N J ; B -15 -194 311 692 ;  
C 75 ; WX 726 ; N K ; B 22 -3 719 692 ;  
C 76 ; WX 611 ; N L ; B 22 -3 586 692 ;  
C 77 ; WX 946 ; N M ; B 16 -13 926 692 ;  
C 78 ; WX 831 ; N N ; B 17 -20 813 692 ;  
C 79 ; WX 786 ; N O ; B 22 -20 764 709 ;  
C 80 ; WX 604 ; N P ; B 22 -3 580 692 ;  
C 81 ; WX 786 ; N Q ; B 22 -176 764 709 ;  
C 82 ; WX 668 ; N R ; B 22 -3 669 692 ;  
C 83 ; WX 525 ; N S ; B 24 -20 503 709 ;  
C 84 ; WX 613 ; N T ; B 18 -3 595 692 ;  
C 85 ; WX 778 ; N U ; B 12 -20 759 692 ;  
C 86 ; WX 722 ; N V ; B 8 -9 706 692 ;  
C 87 ; WX 1000 ; N W ; B 8 -9 984 700 ;  
C 88 ; WX 667 ; N X ; B 14 -3 648 700 ;  
C 89 ; WX 667 ; N Y ; B 9 -3 654 704 ;  
C 90 ; WX 667 ; N Z ; B 15 -3 638 692 ;  
C 91 ; WX 333 ; N bracketleft ; B 79 -184 288 726 ;  
C 92 ; WX 606 ; N backslash ; B 81 0 512 726 ;  
C 93 ; WX 333 ; N bracketright ; B 45 -184 254 726 ;  
C 94 ; WX 606 ; N asciicircum ; B 51 283 554 689 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 45 446 233 709 ;  
C 97 ; WX 500 ; N a ; B 32 -12 471 469 ;  
C 98 ; WX 553 ; N b ; B -15 -12 508 726 ;  
C 99 ; WX 444 ; N c ; B 26 -20 413 469 ;  
C 100 ; WX 611 ; N d ; B 35 -12 579 726 ;  
C 101 ; WX 479 ; N e ; B 26 -20 448 469 ;  
C 102 ; WX 333 ; N f ; B 23 -3 341 728 ; L i f i ; L l f l ;  
C 103 ; WX 556 ; N g ; B 32 -283 544 469 ;  
C 104 ; WX 582 ; N h ; B 6 -3 572 726 ;  
C 105 ; WX 291 ; N i ; B 21 -3 271 687 ;  
C 106 ; WX 234 ; N j ; B -40 -283 167 688 ;  
C 107 ; WX 556 ; N k ; B 21 -12 549 726 ;  
C 108 ; WX 291 ; N l ; B 21 -3 271 726 ;  
C 109 ; WX 883 ; N m ; B 16 -3 869 469 ;  
C 110 ; WX 582 ; N n ; B 6 -3 572 469 ;  
C 111 ; WX 546 ; N o ; B 32 -20 514 469 ;  
C 112 ; WX 601 ; N p ; B 8 -281 554 469 ;  
C 113 ; WX 560 ; N q ; B 35 -281 560 469 ;  
C 114 ; WX 395 ; N r ; B 21 -3 374 469 ;  
C 115 ; WX 424 ; N s ; B 30 -20 391 469 ;

C 116 ; WX 326 ; N t ; B 22 -12 319 621 ;  
C 117 ; WX 603 ; N u ; B 18 -12 581 469 ;  
C 118 ; WX 565 ; N v ; B 6 -7 539 459 ;  
C 119 ; WX 834 ; N w ; B 6 -7 808 469 ;  
C 120 ; WX 516 ; N x ; B 20 -3 496 469 ;  
C 121 ; WX 556 ; N y ; B 12 -283 544 459 ;  
C 122 ; WX 500 ; N z ; B 16 -3 466 462 ;  
C 123 ; WX 333 ; N braceleft ; B 58 -175 289 726 ;  
C 124 ; WX 606 ; N bar ; B 275 0 331 726 ;  
C 125 ; WX 333 ; N braceright ; B 44 -175 275 726 ;  
C 126 ; WX 606 ; N asciitilde ; B 51 176 555 347 ;  
C 161 ; WX 278 ; N exclamdown ; B 81 -225 197 469 ;  
C 162 ; WX 500 ; N cent ; B 61 -101 448 562 ;  
C 163 ; WX 500 ; N sterling ; B 12 -13 478 694 ;  
C 164 ; WX 167 ; N fraction ; B -166 0 337 689 ;  
C 165 ; WX 500 ; N yen ; B 5 -3 496 701 ;  
C 166 ; WX 500 ; N florin ; B 0 -262 473 706 ;  
C 167 ; WX 500 ; N section ; B 26 -219 465 709 ;  
C 168 ; WX 500 ; N currency ; B 30 96 470 531 ;  
C 169 ; WX 208 ; N quotesingle ; B 61 469 147 709 ;  
C 170 ; WX 500 ; N quotedblleft ; B 51 446 449 709 ;  
C 171 ; WX 500 ; N guillemotleft ; B 50 71 450 428 ;  
C 172 ; WX 331 ; N guilsinglleft ; B 66 71 265 428 ;  
C 173 ; WX 331 ; N guilsinglright ; B 66 71 265 428 ;  
C 174 ; WX 605 ; N fi ; B 23 -3 587 728 ;  
C 175 ; WX 608 ; N fl ; B 23 -3 590 728 ;  
C 177 ; WX 500 ; N endash ; B 0 219 500 277 ;  
C 178 ; WX 500 ; N dagger ; B 34 -5 466 694 ;  
C 179 ; WX 500 ; N daggerdbl ; B 34 -249 466 694 ;  
C 180 ; WX 250 ; N periodcentered ; B 67 203 183 319 ;  
C 182 ; WX 628 ; N paragraph ; B 39 -150 589 694 ;  
C 183 ; WX 606 ; N bullet ; B 131 172 475 516 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 22 -153 210 110 ;  
C 185 ; WX 500 ; N quotedblbase ; B 51 -153 449 110 ;  
C 186 ; WX 500 ; N quotedblright ; B 51 446 449 709 ;  
C 187 ; WX 500 ; N guillemotright ; B 50 71 450 428 ;  
C 188 ; WX 1000 ; N ellipsis ; B 109 -5 891 111 ;  
C 189 ; WX 1144 ; N perthousand ; B 123 -20 1021 709 ;  
C 191 ; WX 444 ; N questiondown ; B 43 -231 395 469 ;  
C 193 ; WX 333 ; N grave ; B 31 506 255 677 ;  
C 194 ; WX 333 ; N acute ; B 78 506 302 677 ;  
C 195 ; WX 333 ; N circumflex ; B 11 510 323 677 ;  
C 196 ; WX 333 ; N tilde ; B 2 535 332 640 ;  
C 197 ; WX 333 ; N macron ; B 11 538 323 591 ;  
C 198 ; WX 333 ; N breve ; B 26 506 308 664 ;  
C 199 ; WX 250 ; N dotaccent ; B 75 537 175 637 ;  
C 200 ; WX 333 ; N dieresis ; B 17 537 316 637 ;  
C 202 ; WX 333 ; N ring ; B 67 496 267 696 ;

C 203 ; WX 333 ; N cedilla ; B 96 -225 304 -10 ;  
C 205 ; WX 380 ; N hungarumlaut ; B 3 506 377 687 ;  
C 206 ; WX 313 ; N ogonek ; B 68 -165 245 -20 ;  
C 207 ; WX 333 ; N caron ; B 11 510 323 677 ;  
C 208 ; WX 1000 ; N emdash ; B 0 219 1000 277 ;  
C 225 ; WX 944 ; N AE ; B -10 -3 908 692 ;  
C 227 ; WX 333 ; N ordfeminine ; B 24 422 310 709 ;  
C 232 ; WX 611 ; N Lslash ; B 6 -3 586 692 ;  
C 233 ; WX 833 ; N Oslash ; B 30 -20 797 709 ;  
C 234 ; WX 998 ; N OE ; B 22 -20 962 709 ;  
C 235 ; WX 333 ; N ordmasculine ; B 10 416 323 709 ;  
C 241 ; WX 758 ; N ae ; B 30 -20 732 469 ;  
C 245 ; WX 287 ; N dotlessi ; B 21 -3 271 469 ;  
C 248 ; WX 291 ; N lslash ; B -14 -3 306 726 ;  
C 249 ; WX 556 ; N oslash ; B 16 -23 530 474 ;  
C 250 ; WX 827 ; N oe ; B 32 -20 800 469 ;  
C 251 ; WX 556 ; N germandbls ; B 23 -9 519 731 ;  
C -1 ; WX 667 ; N Zcaron ; B 15 -3 638 908 ;  
C -1 ; WX 444 ; N ccedilla ; B 26 -225 413 469 ;  
C -1 ; WX 556 ; N ydieresis ; B 12 -283 544 657 ;  
C -1 ; WX 500 ; N atilde ; B 32 -12 471 652 ;  
C -1 ; WX 287 ; N icircumflex ; B -12 -3 300 697 ;  
C -1 ; WX 300 ; N threesuperior ; B 1 266 299 689 ;  
C -1 ; WX 479 ; N ecircumflex ; B 26 -20 448 697 ;  
C -1 ; WX 601 ; N thorn ; B -2 -281 544 726 ;  
C -1 ; WX 479 ; N egrave ; B 26 -20 448 697 ;  
C -1 ; WX 300 ; N twosuperior ; B 0 273 301 689 ;  
C -1 ; WX 479 ; N eacute ; B 26 -20 448 697 ;  
C -1 ; WX 546 ; N otilde ; B 32 -20 514 652 ;  
C -1 ; WX 778 ; N Aacute ; B 15 -3 756 908 ;  
C -1 ; WX 546 ; N ocircumflex ; B 32 -20 514 697 ;  
C -1 ; WX 556 ; N yacute ; B 12 -283 544 697 ;  
C -1 ; WX 603 ; N udieresis ; B 18 -12 581 657 ;  
C -1 ; WX 750 ; N threequarters ; B 15 -3 735 689 ;  
C -1 ; WX 500 ; N acircumflex ; B 32 -12 471 697 ;  
C -1 ; WX 774 ; N Eth ; B 14 -3 751 692 ;  
C -1 ; WX 479 ; N edieresis ; B 26 -20 448 657 ;  
C -1 ; WX 603 ; N ugrave ; B 18 -12 581 697 ;  
C -1 ; WX 979 ; N trademark ; B 40 285 939 689 ;  
C -1 ; WX 546 ; N ograve ; B 32 -20 514 697 ;  
C -1 ; WX 424 ; N scaron ; B 30 -20 391 685 ;  
C -1 ; WX 337 ; N Idieresis ; B 19 -3 318 868 ;  
C -1 ; WX 603 ; N uacute ; B 18 -12 581 697 ;  
C -1 ; WX 500 ; N agrave ; B 32 -12 471 697 ;  
C -1 ; WX 582 ; N ntilde ; B 6 -3 572 652 ;  
C -1 ; WX 500 ; N aring ; B 32 -12 471 716 ;  
C -1 ; WX 500 ; N zcaron ; B 16 -3 466 685 ;  
C -1 ; WX 337 ; N Icircumflex ; B 13 -3 325 908 ;

C -1 ; WX 831 ; N Ntilde ; B 17 -20 813 871 ;  
C -1 ; WX 603 ; N ucircumflex ; B 18 -12 581 697 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 22 -3 572 908 ;  
C -1 ; WX 337 ; N Iacute ; B 22 -3 315 908 ;  
C -1 ; WX 709 ; N Ccedilla ; B 22 -225 670 709 ;  
C -1 ; WX 786 ; N Odieresis ; B 22 -20 764 868 ;  
C -1 ; WX 525 ; N Scaron ; B 24 -20 503 908 ;  
C -1 ; WX 611 ; N Edieresis ; B 22 -3 572 868 ;  
C -1 ; WX 337 ; N Igrave ; B 22 -3 315 908 ;  
C -1 ; WX 500 ; N adieresis ; B 32 -12 471 657 ;  
C -1 ; WX 786 ; N Ograve ; B 22 -20 764 908 ;  
C -1 ; WX 611 ; N Egrave ; B 22 -3 572 908 ;  
C -1 ; WX 667 ; N Ydieresis ; B 9 -3 654 868 ;  
C -1 ; WX 747 ; N registered ; B 11 -18 736 706 ;  
C -1 ; WX 786 ; N Otilde ; B 22 -20 764 883 ;  
C -1 ; WX 750 ; N onequarter ; B 30 -3 727 692 ;  
C -1 ; WX 778 ; N Ugrave ; B 12 -20 759 908 ;  
C -1 ; WX 778 ; N Ucircumflex ; B 12 -20 759 908 ;  
C -1 ; WX 604 ; N Thorn ; B 32 -3 574 692 ;  
C -1 ; WX 606 ; N divide ; B 51 10 555 512 ;  
C -1 ; WX 778 ; N Atilde ; B 15 -3 756 871 ;  
C -1 ; WX 778 ; N Uacute ; B 12 -20 759 908 ;  
C -1 ; WX 786 ; N Ocircumflex ; B 22 -20 764 908 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 120 551 386 ;  
C -1 ; WX 778 ; N Aring ; B 15 -3 756 927 ;  
C -1 ; WX 287 ; N idieresis ; B -6 -3 293 657 ;  
C -1 ; WX 287 ; N iacute ; B 21 -3 279 697 ;  
C -1 ; WX 500 ; N aacute ; B 32 -12 471 697 ;  
C -1 ; WX 606 ; N plusminus ; B 51 0 555 512 ;  
C -1 ; WX 606 ; N multiply ; B 83 36 523 474 ;  
C -1 ; WX 778 ; N Udieresis ; B 12 -20 759 868 ;  
C -1 ; WX 606 ; N minus ; B 51 233 555 289 ;  
C -1 ; WX 300 ; N onesuperior ; B 31 273 269 692 ;  
C -1 ; WX 611 ; N Eacute ; B 22 -3 572 908 ;  
C -1 ; WX 778 ; N Acircumflex ; B 15 -3 756 908 ;  
C -1 ; WX 747 ; N copyright ; B 11 -18 736 706 ;  
C -1 ; WX 778 ; N Agrave ; B 15 -3 756 908 ;  
C -1 ; WX 546 ; N odieresis ; B 32 -20 514 657 ;  
C -1 ; WX 546 ; N oacute ; B 32 -20 514 697 ;  
C -1 ; WX 400 ; N degree ; B 50 389 350 689 ;  
C -1 ; WX 287 ; N igrave ; B 8 -3 271 697 ;  
C -1 ; WX 603 ; N mu ; B 18 -236 581 469 ;  
C -1 ; WX 786 ; N Oacute ; B 22 -20 764 908 ;  
C -1 ; WX 546 ; N eth ; B 32 -20 504 728 ;  
C -1 ; WX 778 ; N Adieresis ; B 15 -3 756 868 ;  
C -1 ; WX 667 ; N Yacute ; B 9 -3 654 908 ;  
C -1 ; WX 606 ; N brokenbar ; B 275 0 331 726 ;  
C -1 ; WX 750 ; N onehalf ; B 15 -3 735 692 ;

EndCharMetrics  
StartKernData  
StartKernPairs 111

KPX A y -74  
KPX A w -74  
KPX A v -92  
KPX A space -55  
KPX A quoteright -74  
KPX A Y -111  
KPX A W -74  
KPX A V -111  
KPX A T -74

KPX F period -92  
KPX F comma -92  
KPX F A -74

KPX L y -55  
KPX L space -37  
KPX L quoteright -74  
KPX L Y -92  
KPX L W -74  
KPX L V -92  
KPX L T -74

KPX P space -18  
KPX P period -129  
KPX P comma -129  
KPX P A -92

KPX R y -37  
KPX R Y -37  
KPX R W -37  
KPX R V -55  
KPX R T -37

KPX T y -90  
KPX T w -90  
KPX T u -90  
KPX T semicolon -55  
KPX T s -90  
KPX T r -90  
KPX T period -74  
KPX T o -92  
KPX T i -55  
KPX T hyphen -55  
KPX T e -92

KPX T comma -74  
KPX T colon -55  
KPX T c -111  
KPX T a -92  
KPX T O -18  
KPX T A -74

KPX V y -92  
KPX V u -92  
KPX V semicolon -55  
KPX V r -92  
KPX V period -129  
KPX V o -111  
KPX V i -55  
KPX V hyphen -74  
KPX V e -111  
KPX V comma -129  
KPX V colon -55  
KPX V a -92  
KPX V A -111

KPX W y -50  
KPX W u -50  
KPX W semicolon -18  
KPX W r -74  
KPX W period -92  
KPX W o -92  
KPX W i -55  
KPX W hyphen -55  
KPX W e -92  
KPX W comma -92  
KPX W colon -18  
KPX W a -92  
KPX W A -92

KPX Y v -90  
KPX Y u -90  
KPX Y space -18  
KPX Y semicolon -74  
KPX Y q -90  
KPX Y period -111  
KPX Y p -111  
KPX Y o -92  
KPX Y i -55  
KPX Y hyphen -92  
KPX Y e -92  
KPX Y comma -111  
KPX Y colon -74

KPX Y a -92  
KPX Y A -92

KPX f quoteright 55  
KPX f f -18

KPX one one -55

KPX quoteleft quoteleft -37

KPX quoteright quoteright -37

KPX r u -8  
KPX r quoteright 74  
KPX r q -18  
KPX r period -74  
KPX r o -18  
KPX r hyphen -18  
KPX r h -18  
KPX r g -18  
KPX r e -18  
KPX r d -18  
KPX r comma -74  
KPX r c -18

KPX space Y -18  
KPX space A -37

KPX v period -111  
KPX v comma -111

KPX w period -92  
KPX w comma -92

KPX y period -111  
KPX y comma -111

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 229 231 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 223 231 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 223 231 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 215 231 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 223 231 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 223 231 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 188 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 231 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 231 ;

CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 231 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 231 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 2 231 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 2 231 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 2 231 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 2 231 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 249 231 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 227 231 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 227 231 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 227 231 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 227 231 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 227 243 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 96 231 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 255 231 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 247 231 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 223 231 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 223 231 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 203 231 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 191 231 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 179 231 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 20 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 72 20 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 72 20 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 60 20 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 72 20 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 72 12 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 97 20 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 85 20 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 73 20 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 73 20 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -23 20 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -23 20 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -23 20 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -23 20 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 113 12 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 107 20 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 107 20 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 107 20 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 95 20 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 107 12 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 46 8 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 159 20 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 135 20 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 135 20 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 111 20 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 144 20 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 20 ;



CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 8 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Tue Jan 21 16:15:53 1992  
Comment UniqueID 37833  
Comment VMusage 32321 39213  
FontName Bookman-Light  
FullName ITC Bookman Light  
FamilyName ITC Bookman  
Weight Light  
ItalicAngle 0  
IsFixedPitch false  
FontBBox -188 -251 1266 908  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.004  
Notice Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved. ITC Bookman is a registered trademark of International Typeface Corporation.  
EncodingScheme AdobeStandardEncoding  
CapHeight 681  
XHeight 484  
Ascender 717  
Descender -228  
StartCharMetrics 228  
C 32 ; WX 320 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 300 ; N exclam ; B 75 -8 219 698 ;  
C 34 ; WX 380 ; N quotedbl ; B 56 458 323 698 ;  
C 35 ; WX 620 ; N numbersign ; B 65 0 556 681 ;  
C 36 ; WX 620 ; N dollar ; B 34 -109 593 791 ;  
C 37 ; WX 900 ; N percent ; B 22 -8 873 698 ;  
C 38 ; WX 800 ; N ampersand ; B 45 -17 787 698 ;  
C 39 ; WX 220 ; N quoteright ; B 46 480 178 698 ;  
C 40 ; WX 300 ; N parenleft ; B 76 -145 278 727 ;  
C 41 ; WX 300 ; N parenright ; B 17 -146 219 727 ;  
C 42 ; WX 440 ; N asterisk ; B 54 325 391 698 ;  
C 43 ; WX 600 ; N plus ; B 51 8 555 513 ;  
C 44 ; WX 320 ; N comma ; B 90 -114 223 114 ;  
C 45 ; WX 400 ; N hyphen ; B 50 232 350 292 ;  
C 46 ; WX 320 ; N period ; B 92 -8 220 123 ;  
C 47 ; WX 600 ; N slash ; B 74 -149 532 717 ;  
C 48 ; WX 620 ; N zero ; B 40 -17 586 698 ;  
C 49 ; WX 620 ; N one ; B 160 0 501 681 ;  
C 50 ; WX 620 ; N two ; B 42 0 576 698 ;  
C 51 ; WX 620 ; N three ; B 40 -17 576 698 ;  
C 52 ; WX 620 ; N four ; B 25 0 600 681 ;  
C 53 ; WX 620 ; N five ; B 60 -17 584 717 ;

C 54 ; WX 620 ; N six ; B 45 -17 590 698 ;  
C 55 ; WX 620 ; N seven ; B 60 0 586 681 ;  
C 56 ; WX 620 ; N eight ; B 44 -17 583 698 ;  
C 57 ; WX 620 ; N nine ; B 37 -17 576 698 ;  
C 58 ; WX 320 ; N colon ; B 92 -8 220 494 ;  
C 59 ; WX 320 ; N semicolon ; B 90 -114 223 494 ;  
C 60 ; WX 600 ; N less ; B 49 -2 558 526 ;  
C 61 ; WX 600 ; N equal ; B 51 126 555 398 ;  
C 62 ; WX 600 ; N greater ; B 48 -2 557 526 ;  
C 63 ; WX 540 ; N question ; B 27 -8 514 698 ;  
C 64 ; WX 820 ; N at ; B 55 -17 755 698 ;  
C 65 ; WX 680 ; N A ; B -37 0 714 681 ;  
C 66 ; WX 740 ; N B ; B 31 0 702 681 ;  
C 67 ; WX 740 ; N C ; B 44 -17 702 698 ;  
C 68 ; WX 800 ; N D ; B 31 0 752 681 ;  
C 69 ; WX 720 ; N E ; B 31 0 705 681 ;  
C 70 ; WX 640 ; N F ; B 31 0 654 681 ;  
C 71 ; WX 800 ; N G ; B 44 -17 778 698 ;  
C 72 ; WX 800 ; N H ; B 31 0 769 681 ;  
C 73 ; WX 340 ; N I ; B 31 0 301 681 ;  
C 74 ; WX 600 ; N J ; B -23 -17 567 681 ;  
C 75 ; WX 720 ; N K ; B 31 0 750 681 ;  
C 76 ; WX 600 ; N L ; B 31 0 629 681 ;  
C 77 ; WX 920 ; N M ; B 26 0 894 681 ;  
C 78 ; WX 740 ; N N ; B 26 0 722 681 ;  
C 79 ; WX 800 ; N O ; B 44 -17 758 698 ;  
C 80 ; WX 620 ; N P ; B 31 0 613 681 ;  
C 81 ; WX 820 ; N Q ; B 44 -189 769 698 ;  
C 82 ; WX 720 ; N R ; B 31 0 757 681 ;  
C 83 ; WX 660 ; N S ; B 28 -17 634 698 ;  
C 84 ; WX 620 ; N T ; B -37 0 656 681 ;  
C 85 ; WX 780 ; N U ; B 25 -17 754 681 ;  
C 86 ; WX 700 ; N V ; B -30 0 725 681 ;  
C 87 ; WX 960 ; N W ; B -30 0 984 681 ;  
C 88 ; WX 720 ; N X ; B -30 0 755 681 ;  
C 89 ; WX 640 ; N Y ; B -30 0 666 681 ;  
C 90 ; WX 640 ; N Z ; B 10 0 656 681 ;  
C 91 ; WX 300 ; N bracketleft ; B 92 -136 258 717 ;  
C 92 ; WX 600 ; N backslash ; B 74 0 532 717 ;  
C 93 ; WX 300 ; N bracketright ; B 41 -136 207 717 ;  
C 94 ; WX 600 ; N asciicircum ; B 52 276 554 681 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 220 ; N quoteleft ; B 46 479 178 698 ;  
C 97 ; WX 580 ; N a ; B 35 -8 587 494 ;  
C 98 ; WX 620 ; N b ; B -2 -8 582 717 ;  
C 99 ; WX 520 ; N c ; B 37 -8 498 494 ;  
C 100 ; WX 620 ; N d ; B 37 -8 591 717 ;  
C 101 ; WX 520 ; N e ; B 37 -8 491 494 ;

C 102 ; WX 320 ; N f ; B 20 0 414 734 ; L i fi ; L l fl ;  
C 103 ; WX 540 ; N g ; B 17 -243 542 567 ;  
C 104 ; WX 660 ; N h ; B 20 0 643 717 ;  
C 105 ; WX 300 ; N i ; B 20 0 288 654 ;  
C 106 ; WX 300 ; N j ; B -109 -251 214 654 ;  
C 107 ; WX 620 ; N k ; B 20 0 628 717 ;  
C 108 ; WX 300 ; N l ; B 20 0 286 717 ;  
C 109 ; WX 940 ; N m ; B 17 0 928 494 ;  
C 110 ; WX 660 ; N n ; B 20 0 649 494 ;  
C 111 ; WX 560 ; N o ; B 37 -8 526 494 ;  
C 112 ; WX 620 ; N p ; B 20 -228 583 494 ;  
C 113 ; WX 580 ; N q ; B 37 -228 589 494 ;  
C 114 ; WX 440 ; N r ; B 20 0 447 494 ;  
C 115 ; WX 520 ; N s ; B 40 -8 487 494 ;  
C 116 ; WX 380 ; N t ; B 20 -8 388 667 ;  
C 117 ; WX 680 ; N u ; B 20 -8 653 484 ;  
C 118 ; WX 520 ; N v ; B -23 0 534 484 ;  
C 119 ; WX 780 ; N w ; B -19 0 804 484 ;  
C 120 ; WX 560 ; N x ; B -16 0 576 484 ;  
C 121 ; WX 540 ; N y ; B -23 -236 549 484 ;  
C 122 ; WX 480 ; N z ; B 7 0 476 484 ;  
C 123 ; WX 280 ; N braceleft ; B 21 -136 260 717 ;  
C 124 ; WX 600 ; N bar ; B 264 -250 342 750 ;  
C 125 ; WX 280 ; N braceright ; B 21 -136 260 717 ;  
C 126 ; WX 600 ; N asciitilde ; B 52 173 556 352 ;  
C 161 ; WX 300 ; N exclamdown ; B 75 -214 219 494 ;  
C 162 ; WX 620 ; N cent ; B 116 20 511 651 ;  
C 163 ; WX 620 ; N sterling ; B 8 -17 631 698 ;  
C 164 ; WX 140 ; N fraction ; B -188 0 335 681 ;  
C 165 ; WX 620 ; N yen ; B -22 0 647 681 ;  
C 166 ; WX 620 ; N florin ; B -29 -155 633 749 ;  
C 167 ; WX 520 ; N section ; B 33 -178 486 698 ;  
C 168 ; WX 620 ; N currency ; B 58 89 563 591 ;  
C 169 ; WX 220 ; N quotesingle ; B 67 458 153 698 ;  
C 170 ; WX 400 ; N quotedblleft ; B 46 479 348 698 ;  
C 171 ; WX 360 ; N guillemotleft ; B 51 89 312 437 ;  
C 172 ; WX 240 ; N guilsinglleft ; B 51 89 189 437 ;  
C 173 ; WX 240 ; N guilsinglright ; B 51 89 189 437 ;  
C 174 ; WX 620 ; N fi ; B 20 0 608 734 ;  
C 175 ; WX 620 ; N fl ; B 20 0 606 734 ;  
C 177 ; WX 500 ; N endash ; B -15 232 515 292 ;  
C 178 ; WX 540 ; N dagger ; B 79 -156 455 698 ;  
C 179 ; WX 540 ; N daggerdbl ; B 79 -156 455 698 ;  
C 180 ; WX 320 ; N periodcentered ; B 92 196 220 327 ;  
C 182 ; WX 600 ; N paragraph ; B 14 0 577 681 ;  
C 183 ; WX 460 ; N bullet ; B 60 170 404 511 ;  
C 184 ; WX 220 ; N quotesinglbase ; B 46 -108 178 110 ;  
C 185 ; WX 400 ; N quotedblbase ; B 46 -108 348 110 ;

C 186 ; WX 400 ; N quotedblright ; B 46 480 348 698 ;  
C 187 ; WX 360 ; N guillemotright ; B 51 89 312 437 ;  
C 188 ; WX 1000 ; N ellipsis ; B 101 -8 898 123 ;  
C 189 ; WX 1280 ; N perthousand ; B 22 -8 1266 698 ;  
C 191 ; WX 540 ; N questiondown ; B 23 -217 510 494 ;  
C 193 ; WX 340 ; N grave ; B 68 571 274 689 ;  
C 194 ; WX 340 ; N acute ; B 68 571 274 689 ;  
C 195 ; WX 420 ; N circumflex ; B 68 567 352 685 ;  
C 196 ; WX 440 ; N tilde ; B 68 572 375 661 ;  
C 197 ; WX 440 ; N macron ; B 68 587 364 635 ;  
C 198 ; WX 460 ; N breve ; B 68 568 396 687 ;  
C 199 ; WX 260 ; N dotaccent ; B 68 552 186 672 ;  
C 200 ; WX 420 ; N dieresis ; B 68 552 349 674 ;  
C 202 ; WX 320 ; N ring ; B 68 546 252 731 ;  
C 203 ; WX 320 ; N cedilla ; B 68 -200 257 0 ;  
C 205 ; WX 380 ; N hungarumlaut ; B 68 538 311 698 ;  
C 206 ; WX 320 ; N ogonek ; B 68 -145 245 0 ;  
C 207 ; WX 420 ; N caron ; B 68 554 352 672 ;  
C 208 ; WX 1000 ; N emdash ; B -15 232 1015 292 ;  
C 225 ; WX 1260 ; N AE ; B -36 0 1250 681 ;  
C 227 ; WX 420 ; N ordfeminine ; B 49 395 393 698 ;  
C 232 ; WX 600 ; N Lslash ; B 31 0 629 681 ;  
C 233 ; WX 800 ; N Oslash ; B 44 -53 758 733 ;  
C 234 ; WX 1240 ; N OE ; B 44 -17 1214 698 ;  
C 235 ; WX 420 ; N ordmasculine ; B 56 394 361 698 ;  
C 241 ; WX 860 ; N ae ; B 35 -8 832 494 ;  
C 245 ; WX 300 ; N dotlessi ; B 20 0 288 484 ;  
C 248 ; WX 320 ; N lslash ; B 20 0 291 717 ;  
C 249 ; WX 560 ; N oslash ; B 37 -40 526 534 ;  
C 250 ; WX 900 ; N oe ; B 37 -8 876 494 ;  
C 251 ; WX 660 ; N germandbls ; B -109 -110 614 698 ;  
C -1 ; WX 520 ; N ecircumflex ; B 37 -8 491 685 ;  
C -1 ; WX 520 ; N edieresis ; B 37 -8 491 674 ;  
C -1 ; WX 580 ; N aacute ; B 35 -8 587 689 ;  
C -1 ; WX 740 ; N registered ; B 23 -17 723 698 ;  
C -1 ; WX 300 ; N icircumflex ; B 8 0 292 685 ;  
C -1 ; WX 680 ; N udieresis ; B 20 -8 653 674 ;  
C -1 ; WX 560 ; N ograve ; B 37 -8 526 689 ;  
C -1 ; WX 680 ; N uacute ; B 20 -8 653 689 ;  
C -1 ; WX 680 ; N ucircumflex ; B 20 -8 653 685 ;  
C -1 ; WX 680 ; N Aacute ; B -37 0 714 866 ;  
C -1 ; WX 300 ; N igrave ; B 20 0 288 689 ;  
C -1 ; WX 340 ; N Icircumflex ; B 28 0 312 862 ;  
C -1 ; WX 520 ; N ccedilla ; B 37 -200 498 494 ;  
C -1 ; WX 580 ; N adieresis ; B 35 -8 587 674 ;  
C -1 ; WX 720 ; N Ecircumflex ; B 31 0 705 862 ;  
C -1 ; WX 520 ; N scaron ; B 40 -8 487 672 ;  
C -1 ; WX 620 ; N thorn ; B 20 -228 583 717 ;

C -1 ; WX 980 ; N trademark ; B 34 277 930 681 ;  
C -1 ; WX 520 ; N egrave ; B 37 -8 491 689 ;  
C -1 ; WX 372 ; N threesuperior ; B 12 269 360 698 ;  
C -1 ; WX 480 ; N zcaron ; B 7 0 476 672 ;  
C -1 ; WX 580 ; N atilde ; B 35 -8 587 661 ;  
C -1 ; WX 580 ; N aring ; B 35 -8 587 731 ;  
C -1 ; WX 560 ; N ocircumflex ; B 37 -8 526 685 ;  
C -1 ; WX 720 ; N Edieresis ; B 31 0 705 851 ;  
C -1 ; WX 930 ; N threequarters ; B 52 0 889 691 ;  
C -1 ; WX 540 ; N ydieresis ; B -23 -236 549 674 ;  
C -1 ; WX 540 ; N yacute ; B -23 -236 549 689 ;  
C -1 ; WX 300 ; N iacute ; B 20 0 288 689 ;  
C -1 ; WX 680 ; N Acircumflex ; B -37 0 714 862 ;  
C -1 ; WX 780 ; N Uacute ; B 25 -17 754 866 ;  
C -1 ; WX 520 ; N eacute ; B 37 -8 491 689 ;  
C -1 ; WX 800 ; N Ograve ; B 44 -17 758 866 ;  
C -1 ; WX 580 ; N agrave ; B 35 -8 587 689 ;  
C -1 ; WX 780 ; N Udieresis ; B 25 -17 754 851 ;  
C -1 ; WX 580 ; N acircumflex ; B 35 -8 587 685 ;  
C -1 ; WX 340 ; N Igrave ; B 31 0 301 866 ;  
C -1 ; WX 372 ; N twosuperior ; B 20 279 367 698 ;  
C -1 ; WX 780 ; N Ugrave ; B 25 -17 754 866 ;  
C -1 ; WX 930 ; N onequarter ; B 80 0 869 681 ;  
C -1 ; WX 780 ; N Ucircumflex ; B 25 -17 754 862 ;  
C -1 ; WX 660 ; N Scaron ; B 28 -17 634 849 ;  
C -1 ; WX 340 ; N Idieresis ; B 28 0 309 851 ;  
C -1 ; WX 300 ; N idieresis ; B 8 0 289 674 ;  
C -1 ; WX 720 ; N Egrave ; B 31 0 705 866 ;  
C -1 ; WX 800 ; N Oacute ; B 44 -17 758 866 ;  
C -1 ; WX 600 ; N divide ; B 51 10 555 514 ;  
C -1 ; WX 680 ; N Atilde ; B -37 0 714 838 ;  
C -1 ; WX 680 ; N Aring ; B -37 0 714 908 ;  
C -1 ; WX 800 ; N Odieresis ; B 44 -17 758 851 ;  
C -1 ; WX 680 ; N Adieresis ; B -37 0 714 851 ;  
C -1 ; WX 740 ; N Ntilde ; B 26 0 722 838 ;  
C -1 ; WX 640 ; N Zcaron ; B 10 0 656 849 ;  
C -1 ; WX 620 ; N Thorn ; B 31 0 613 681 ;  
C -1 ; WX 340 ; N Iacute ; B 31 0 301 866 ;  
C -1 ; WX 600 ; N plusminus ; B 51 0 555 513 ;  
C -1 ; WX 600 ; N multiply ; B 51 9 555 513 ;  
C -1 ; WX 720 ; N Eacute ; B 31 0 705 866 ;  
C -1 ; WX 640 ; N Ydieresis ; B -30 0 666 851 ;  
C -1 ; WX 372 ; N onesuperior ; B 80 279 302 688 ;  
C -1 ; WX 680 ; N ugrave ; B 20 -8 653 689 ;  
C -1 ; WX 600 ; N logicalnot ; B 51 128 555 398 ;  
C -1 ; WX 660 ; N ntilde ; B 20 0 649 661 ;  
C -1 ; WX 800 ; N Otilde ; B 44 -17 758 838 ;  
C -1 ; WX 560 ; N otilde ; B 37 -8 526 661 ;

C -1 ; WX 740 ; N Ccedilla ; B 44 -200 702 698 ;  
C -1 ; WX 680 ; N Agrave ; B -37 0 714 866 ;  
C -1 ; WX 930 ; N onehalf ; B 80 0 885 681 ;  
C -1 ; WX 800 ; N Eth ; B 31 0 752 681 ;  
C -1 ; WX 400 ; N degree ; B 50 398 350 698 ;  
C -1 ; WX 640 ; N Yacute ; B -30 0 666 866 ;  
C -1 ; WX 800 ; N Ocircumflex ; B 44 -17 758 862 ;  
C -1 ; WX 560 ; N oacute ; B 37 -8 526 689 ;  
C -1 ; WX 680 ; N mu ; B 20 -251 653 484 ;  
C -1 ; WX 600 ; N minus ; B 51 224 555 300 ;  
C -1 ; WX 560 ; N eth ; B 37 -8 526 734 ;  
C -1 ; WX 560 ; N odieresis ; B 37 -8 526 674 ;  
C -1 ; WX 740 ; N copyright ; B 24 -17 724 698 ;  
C -1 ; WX 600 ; N brokenbar ; B 264 -175 342 675 ;

EndCharMetrics

StartKernData

StartKernPairs 82

KPX A y 32

KPX A w 4

KPX A v 7

KPX A Y -35

KPX A W -40

KPX A V -56

KPX A T 1

KPX F period -46

KPX F comma -41

KPX F A -21

KPX L y 79

KPX L Y 13

KPX L W 1

KPX L V -4

KPX L T 28

KPX P period -60

KPX P comma -55

KPX P A -8

KPX R y 59

KPX R Y 26

KPX R W 13

KPX R V 8

KPX R T 71

KPX T s 16

KPX T r 38

KPX T period -33  
KPX T o 15  
KPX T i 42  
KPX T hyphen 90  
KPX T e 13  
KPX T comma -28  
KPX T c 14  
KPX T a 17  
KPX T A 1

KPX V y 15  
KPX V u -38  
KPX V r -41  
KPX V period -40  
KPX V o -71  
KPX V i -20  
KPX V hyphen 11  
KPX V e -72  
KPX V comma -34  
KPX V a -69  
KPX V A -66

KPX W y 15  
KPX W u -38  
KPX W r -41  
KPX W period -40  
KPX W o -68  
KPX W i -20  
KPX W hyphen 11  
KPX W e -69  
KPX W comma -34  
KPX W a -66  
KPX W A -64

KPX Y v 15  
KPX Y u -38  
KPX Y q -55  
KPX Y period -40  
KPX Y p -31  
KPX Y o -57  
KPX Y i -37  
KPX Y hyphen 11  
KPX Y e -58  
KPX Y comma -34  
KPX Y a -54  
KPX Y A -53

KPX f f 29

KPX r q 9  
 KPX r period -64  
 KPX r o 8  
 KPX r n 31  
 KPX r m 31  
 KPX r hyphen 70  
 KPX r h -21  
 KPX r g -4  
 KPX r f 33  
 KPX r e 7  
 KPX r d 7  
 KPX r comma -58  
 KPX r c 7  
 EndKernPairs  
 EndKernData  
 StartComposites 56  
 CC Acute 2 ; PCC A 0 0 ; PCC acute 200 177 ;  
 CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;  
 CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 130 177 ;  
 CC Agrave 2 ; PCC A 0 0 ; PCC grave 140 177 ;  
 CC Aring 2 ; PCC A 0 0 ; PCC ring 180 177 ;  
 CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 177 ;  
 CC Eacute 2 ; PCC E 0 0 ; PCC acute 220 177 ;  
 CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 150 177 ;  
 CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 150 177 ;  
 CC Egrave 2 ; PCC E 0 0 ; PCC grave 160 177 ;  
 CC Iacute 2 ; PCC I 0 0 ; PCC acute 20 177 ;  
 CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -40 177 ;  
 CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -40 177 ;  
 CC Igrave 2 ; PCC I 0 0 ; PCC grave -20 177 ;  
 CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 150 177 ;  
 CC Oacute 2 ; PCC O 0 0 ; PCC acute 260 177 ;  
 CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 190 177 ;  
 CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 190 177 ;  
 CC Ograve 2 ; PCC O 0 0 ; PCC grave 200 177 ;  
 CC Otilde 2 ; PCC O 0 0 ; PCC tilde 180 177 ;  
 CC Scaron 2 ; PCC S 0 0 ; PCC caron 120 177 ;  
 CC Uacute 2 ; PCC U 0 0 ; PCC acute 250 177 ;  
 CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 180 177 ;  
 CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 180 177 ;  
 CC Ugrave 2 ; PCC U 0 0 ; PCC grave 190 177 ;  
 CC Yacute 2 ; PCC Y 0 0 ; PCC acute 150 177 ;  
 CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 110 177 ;  
 CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 110 177 ;  
 CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;  
 CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 80 0 ;  
 CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;



CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 130 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 70 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 90 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 50 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 50 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 90 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -20 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -60 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -60 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -20 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 110 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 70 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 70 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 110 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 60 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 50 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 170 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 130 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 130 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 170 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 100 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 60 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 30 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.

Comment Creation Date: Thu Mar 15 10:24:18 1990

Comment UniqueID 28362

Comment VMusage 7572 42473

FontName Helvetica-Oblique

FullName Helvetica Oblique

FamilyName Helvetica

Weight Medium

ItalicAngle -12

IsFixedPitch false

FontBBox -170 -225 1116 931

UnderlinePosition -100

UnderlineThickness 50

Version 001.006

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 278 ; N exclam ; B 90 0 340 718 ;  
C 34 ; WX 355 ; N quotedbl ; B 168 463 438 718 ;  
C 35 ; WX 556 ; N numbersign ; B 73 0 631 688 ;  
C 36 ; WX 556 ; N dollar ; B 69 -115 617 775 ;  
C 37 ; WX 889 ; N percent ; B 147 -19 889 703 ;  
C 38 ; WX 667 ; N ampersand ; B 77 -15 647 718 ;  
C 39 ; WX 222 ; N quoteright ; B 151 463 310 718 ;  
C 40 ; WX 333 ; N parenleft ; B 108 -207 454 733 ;  
C 41 ; WX 333 ; N parenright ; B -9 -207 337 733 ;  
C 42 ; WX 389 ; N asterisk ; B 165 431 475 718 ;  
C 43 ; WX 584 ; N plus ; B 85 0 606 505 ;  
C 44 ; WX 278 ; N comma ; B 56 -147 214 106 ;  
C 45 ; WX 333 ; N hyphen ; B 93 232 357 322 ;  
C 46 ; WX 278 ; N period ; B 87 0 214 106 ;  
C 47 ; WX 278 ; N slash ; B -21 -19 452 737 ;  
C 48 ; WX 556 ; N zero ; B 93 -19 608 703 ;  
C 49 ; WX 556 ; N one ; B 207 0 508 703 ;  
C 50 ; WX 556 ; N two ; B 26 0 617 703 ;  
C 51 ; WX 556 ; N three ; B 75 -19 610 703 ;  
C 52 ; WX 556 ; N four ; B 61 0 576 703 ;  
C 53 ; WX 556 ; N five ; B 68 -19 621 688 ;  
C 54 ; WX 556 ; N six ; B 91 -19 615 703 ;  
C 55 ; WX 556 ; N seven ; B 137 0 669 688 ;  
C 56 ; WX 556 ; N eight ; B 74 -19 607 703 ;  
C 57 ; WX 556 ; N nine ; B 82 -19 609 703 ;  
C 58 ; WX 278 ; N colon ; B 87 0 301 516 ;  
C 59 ; WX 278 ; N semicolon ; B 56 -147 301 516 ;  
C 60 ; WX 584 ; N less ; B 94 11 641 495 ;  
C 61 ; WX 584 ; N equal ; B 63 115 628 390 ;  
C 62 ; WX 584 ; N greater ; B 50 11 597 495 ;  
C 63 ; WX 556 ; N question ; B 161 0 610 727 ;  
C 64 ; WX 1015 ; N at ; B 215 -19 965 737 ;  
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;  
C 66 ; WX 667 ; N B ; B 74 0 712 718 ;  
C 67 ; WX 722 ; N C ; B 108 -19 782 737 ;  
C 68 ; WX 722 ; N D ; B 81 0 764 718 ;  
C 69 ; WX 667 ; N E ; B 86 0 762 718 ;  
C 70 ; WX 611 ; N F ; B 86 0 736 718 ;  
C 71 ; WX 778 ; N G ; B 111 -19 799 737 ;  
C 72 ; WX 722 ; N H ; B 77 0 799 718 ;  
C 73 ; WX 278 ; N I ; B 91 0 341 718 ;  
C 74 ; WX 500 ; N J ; B 47 -19 581 718 ;  
C 75 ; WX 667 ; N K ; B 76 0 808 718 ;  
C 76 ; WX 556 ; N L ; B 76 0 555 718 ;  
C 77 ; WX 833 ; N M ; B 73 0 914 718 ;

C 78 ; WX 722 ; N N ; B 76 0 799 718 ;  
C 79 ; WX 778 ; N O ; B 105 -19 826 737 ;  
C 80 ; WX 667 ; N P ; B 86 0 737 718 ;  
C 81 ; WX 778 ; N Q ; B 105 -56 826 737 ;  
C 82 ; WX 722 ; N R ; B 88 0 773 718 ;  
C 83 ; WX 667 ; N S ; B 90 -19 713 737 ;  
C 84 ; WX 611 ; N T ; B 148 0 750 718 ;  
C 85 ; WX 722 ; N U ; B 123 -19 797 718 ;  
C 86 ; WX 667 ; N V ; B 173 0 800 718 ;  
C 87 ; WX 944 ; N W ; B 169 0 1081 718 ;  
C 88 ; WX 667 ; N X ; B 19 0 790 718 ;  
C 89 ; WX 667 ; N Y ; B 167 0 806 718 ;  
C 90 ; WX 611 ; N Z ; B 23 0 741 718 ;  
C 91 ; WX 278 ; N bracketleft ; B 21 -196 403 722 ;  
C 92 ; WX 278 ; N backslash ; B 140 -19 291 737 ;  
C 93 ; WX 278 ; N bracketright ; B -14 -196 368 722 ;  
C 94 ; WX 469 ; N asciicircum ; B 42 264 539 688 ;  
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;  
C 96 ; WX 222 ; N quoteleft ; B 165 470 323 725 ;  
C 97 ; WX 556 ; N a ; B 61 -15 559 538 ;  
C 98 ; WX 556 ; N b ; B 58 -15 584 718 ;  
C 99 ; WX 500 ; N c ; B 74 -15 553 538 ;  
C 100 ; WX 556 ; N d ; B 84 -15 652 718 ;  
C 101 ; WX 556 ; N e ; B 84 -15 578 538 ;  
C 102 ; WX 278 ; N f ; B 86 0 416 728 ; L i fi ; L l fl ;  
C 103 ; WX 556 ; N g ; B 42 -220 610 538 ;  
C 104 ; WX 556 ; N h ; B 65 0 573 718 ;  
C 105 ; WX 222 ; N i ; B 67 0 308 718 ;  
C 106 ; WX 222 ; N j ; B -60 -210 308 718 ;  
C 107 ; WX 500 ; N k ; B 67 0 600 718 ;  
C 108 ; WX 222 ; N l ; B 67 0 308 718 ;  
C 109 ; WX 833 ; N m ; B 65 0 852 538 ;  
C 110 ; WX 556 ; N n ; B 65 0 573 538 ;  
C 111 ; WX 556 ; N o ; B 83 -14 585 538 ;  
C 112 ; WX 556 ; N p ; B 14 -207 584 538 ;  
C 113 ; WX 556 ; N q ; B 84 -207 605 538 ;  
C 114 ; WX 333 ; N r ; B 77 0 446 538 ;  
C 115 ; WX 500 ; N s ; B 63 -15 529 538 ;  
C 116 ; WX 278 ; N t ; B 102 -7 368 669 ;  
C 117 ; WX 556 ; N u ; B 94 -15 600 523 ;  
C 118 ; WX 500 ; N v ; B 119 0 603 523 ;  
C 119 ; WX 722 ; N w ; B 125 0 820 523 ;  
C 120 ; WX 500 ; N x ; B 11 0 594 523 ;  
C 121 ; WX 500 ; N y ; B 15 -214 600 523 ;  
C 122 ; WX 500 ; N z ; B 31 0 571 523 ;  
C 123 ; WX 334 ; N braceleft ; B 92 -196 445 722 ;  
C 124 ; WX 260 ; N bar ; B 90 -19 324 737 ;  
C 125 ; WX 334 ; N braceright ; B 0 -196 354 722 ;

C 126 ; WX 584 ; N asciitilde ; B 111 180 580 326 ;  
C 161 ; WX 333 ; N exclamdown ; B 77 -195 326 523 ;  
C 162 ; WX 556 ; N cent ; B 95 -115 584 623 ;  
C 163 ; WX 556 ; N sterling ; B 49 -16 634 718 ;  
C 164 ; WX 167 ; N fraction ; B -170 -19 482 703 ;  
C 165 ; WX 556 ; N yen ; B 81 0 699 688 ;  
C 166 ; WX 556 ; N florin ; B -52 -207 654 737 ;  
C 167 ; WX 556 ; N section ; B 76 -191 584 737 ;  
C 168 ; WX 556 ; N currency ; B 60 99 646 603 ;  
C 169 ; WX 191 ; N quotesingle ; B 157 463 285 718 ;  
C 170 ; WX 333 ; N quotedblleft ; B 138 470 461 725 ;  
C 171 ; WX 556 ; N guillemotleft ; B 146 108 554 446 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 137 108 340 446 ;  
C 173 ; WX 333 ; N guilsinglright ; B 111 108 314 446 ;  
C 174 ; WX 500 ; N fi ; B 86 0 587 728 ;  
C 175 ; WX 500 ; N fl ; B 86 0 585 728 ;  
C 177 ; WX 556 ; N endash ; B 51 240 623 313 ;  
C 178 ; WX 556 ; N dagger ; B 135 -159 622 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 52 -159 623 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 129 190 257 315 ;  
C 182 ; WX 537 ; N paragraph ; B 126 -173 650 718 ;  
C 183 ; WX 350 ; N bullet ; B 91 202 413 517 ;  
C 184 ; WX 222 ; N quotesinglbase ; B 21 -149 180 106 ;  
C 185 ; WX 333 ; N quotedblbase ; B -6 -149 318 106 ;  
C 186 ; WX 333 ; N quotedblright ; B 124 463 448 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 120 108 528 446 ;  
C 188 ; WX 1000 ; N ellipsis ; B 115 0 908 106 ;  
C 189 ; WX 1000 ; N perthousand ; B 88 -19 1029 703 ;  
C 191 ; WX 611 ; N questiondown ; B 85 -201 534 525 ;  
C 193 ; WX 333 ; N grave ; B 170 593 337 734 ;  
C 194 ; WX 333 ; N acute ; B 248 593 475 734 ;  
C 195 ; WX 333 ; N circumflex ; B 147 593 438 734 ;  
C 196 ; WX 333 ; N tilde ; B 125 606 490 722 ;  
C 197 ; WX 333 ; N macron ; B 143 627 468 684 ;  
C 198 ; WX 333 ; N breve ; B 167 595 476 731 ;  
C 199 ; WX 333 ; N dotaccent ; B 249 604 362 706 ;  
C 200 ; WX 333 ; N dieresis ; B 168 604 443 706 ;  
C 202 ; WX 333 ; N ring ; B 214 572 402 756 ;  
C 203 ; WX 333 ; N cedilla ; B 2 -225 232 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 157 593 565 734 ;  
C 206 ; WX 333 ; N ogonek ; B 43 -225 249 0 ;  
C 207 ; WX 333 ; N caron ; B 177 593 468 734 ;  
C 208 ; WX 1000 ; N emdash ; B 51 240 1067 313 ;  
C 225 ; WX 1000 ; N AE ; B 8 0 1097 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 100 304 449 737 ;  
C 232 ; WX 556 ; N Lslash ; B 41 0 555 718 ;  
C 233 ; WX 778 ; N Oslash ; B 43 -19 890 737 ;  
C 234 ; WX 1000 ; N OE ; B 98 -19 1116 737 ;

C 235 ; WX 365 ; N ordmasculine ; B 100 304 468 737 ;  
C 241 ; WX 889 ; N ae ; B 61 -15 909 538 ;  
C 245 ; WX 278 ; N dotlessi ; B 95 0 294 523 ;  
C 248 ; WX 222 ; N lslash ; B 41 0 347 718 ;  
C 249 ; WX 611 ; N oslash ; B 29 -22 647 545 ;  
C 250 ; WX 944 ; N oe ; B 83 -15 964 538 ;  
C 251 ; WX 611 ; N germandbls ; B 67 -15 658 728 ;  
C -1 ; WX 611 ; N Zcaron ; B 23 0 741 929 ;  
C -1 ; WX 500 ; N ccedilla ; B 74 -225 553 538 ;  
C -1 ; WX 500 ; N ydieresis ; B 15 -214 600 706 ;  
C -1 ; WX 556 ; N atilde ; B 61 -15 592 722 ;  
C -1 ; WX 278 ; N icircumflex ; B 95 0 411 734 ;  
C -1 ; WX 333 ; N threesuperior ; B 90 270 436 703 ;  
C -1 ; WX 556 ; N ecircumflex ; B 84 -15 578 734 ;  
C -1 ; WX 556 ; N thorn ; B 14 -207 584 718 ;  
C -1 ; WX 556 ; N egrave ; B 84 -15 578 734 ;  
C -1 ; WX 333 ; N twosuperior ; B 64 281 449 703 ;  
C -1 ; WX 556 ; N eacute ; B 84 -15 587 734 ;  
C -1 ; WX 556 ; N otilde ; B 83 -14 602 722 ;  
C -1 ; WX 667 ; N Aacute ; B 14 0 683 929 ;  
C -1 ; WX 556 ; N ocircumflex ; B 83 -14 585 734 ;  
C -1 ; WX 500 ; N yacute ; B 15 -214 600 734 ;  
C -1 ; WX 556 ; N udieresis ; B 94 -15 600 706 ;  
C -1 ; WX 834 ; N threequarters ; B 130 -19 861 703 ;  
C -1 ; WX 556 ; N acircumflex ; B 61 -15 559 734 ;  
C -1 ; WX 722 ; N Eth ; B 69 0 764 718 ;  
C -1 ; WX 556 ; N edieresis ; B 84 -15 578 706 ;  
C -1 ; WX 556 ; N ugrave ; B 94 -15 600 734 ;  
C -1 ; WX 1000 ; N trademark ; B 186 306 1056 718 ;  
C -1 ; WX 556 ; N ograve ; B 83 -14 585 734 ;  
C -1 ; WX 500 ; N scaron ; B 63 -15 552 734 ;  
C -1 ; WX 278 ; N Idieresis ; B 91 0 458 901 ;  
C -1 ; WX 556 ; N uacute ; B 94 -15 600 734 ;  
C -1 ; WX 556 ; N agrave ; B 61 -15 559 734 ;  
C -1 ; WX 556 ; N ntilde ; B 65 0 592 722 ;  
C -1 ; WX 556 ; N aring ; B 61 -15 559 756 ;  
C -1 ; WX 500 ; N zcaron ; B 31 0 571 734 ;  
C -1 ; WX 278 ; N Icircumflex ; B 91 0 452 929 ;  
C -1 ; WX 722 ; N Ntilde ; B 76 0 799 917 ;  
C -1 ; WX 556 ; N ucircumflex ; B 94 -15 600 734 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 762 929 ;  
C -1 ; WX 278 ; N Iacute ; B 91 0 489 929 ;  
C -1 ; WX 722 ; N Ccedilla ; B 108 -225 782 737 ;  
C -1 ; WX 778 ; N Odieresis ; B 105 -19 826 901 ;  
C -1 ; WX 667 ; N Scaron ; B 90 -19 713 929 ;  
C -1 ; WX 667 ; N Edieresis ; B 86 0 762 901 ;  
C -1 ; WX 278 ; N Igrave ; B 91 0 351 929 ;  
C -1 ; WX 556 ; N adieresis ; B 61 -15 559 706 ;

C -1 ; WX 778 ; N Ograve ; B 105 -19 826 929 ;  
C -1 ; WX 667 ; N Egrave ; B 86 0 762 929 ;  
C -1 ; WX 667 ; N Ydieresis ; B 167 0 806 901 ;  
C -1 ; WX 737 ; N registered ; B 54 -19 837 737 ;  
C -1 ; WX 778 ; N Otilde ; B 105 -19 826 917 ;  
C -1 ; WX 834 ; N onequarter ; B 150 -19 802 703 ;  
C -1 ; WX 722 ; N Ugrave ; B 123 -19 797 929 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 123 -19 797 929 ;  
C -1 ; WX 667 ; N Thorn ; B 86 0 712 718 ;  
C -1 ; WX 584 ; N divide ; B 85 -19 606 524 ;  
C -1 ; WX 667 ; N Atilde ; B 14 0 699 917 ;  
C -1 ; WX 722 ; N Uacute ; B 123 -19 797 929 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 105 -19 826 929 ;  
C -1 ; WX 584 ; N logicalnot ; B 106 108 628 390 ;  
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;  
C -1 ; WX 278 ; N idieresis ; B 95 0 416 706 ;  
C -1 ; WX 278 ; N iacute ; B 95 0 448 734 ;  
C -1 ; WX 556 ; N aacute ; B 61 -15 587 734 ;  
C -1 ; WX 584 ; N plusminus ; B 39 0 618 506 ;  
C -1 ; WX 584 ; N multiply ; B 50 0 642 506 ;  
C -1 ; WX 722 ; N Udieresis ; B 123 -19 797 901 ;  
C -1 ; WX 584 ; N minus ; B 85 216 606 289 ;  
C -1 ; WX 333 ; N onesuperior ; B 166 281 371 703 ;  
C -1 ; WX 667 ; N Eacute ; B 86 0 762 929 ;  
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;  
C -1 ; WX 737 ; N copyright ; B 54 -19 837 737 ;  
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;  
C -1 ; WX 556 ; N odieresis ; B 83 -14 585 706 ;  
C -1 ; WX 556 ; N oacute ; B 83 -14 587 734 ;  
C -1 ; WX 400 ; N degree ; B 169 411 468 703 ;  
C -1 ; WX 278 ; N igrave ; B 95 0 310 734 ;  
C -1 ; WX 556 ; N mu ; B 24 -207 600 523 ;  
C -1 ; WX 778 ; N Oacute ; B 105 -19 826 929 ;  
C -1 ; WX 556 ; N eth ; B 81 -15 617 737 ;  
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;  
C -1 ; WX 667 ; N Yacute ; B 167 0 806 929 ;  
C -1 ; WX 260 ; N brokenbar ; B 90 -19 324 737 ;  
C -1 ; WX 834 ; N onehalf ; B 114 -19 839 703 ;  
EndCharMetrics  
StartKernData  
StartKernPairs 250

KPX A y -40  
KPX A w -40  
KPX A v -40  
KPX A u -30  
KPX A Y -100  
KPX A W -50

KPX A V -70  
KPX A U -50  
KPX A T -120  
KPX A Q -30  
KPX A O -30  
KPX A G -30  
KPX A C -30

KPX B period -20  
KPX B comma -20  
KPX B U -10

KPX C period -30  
KPX C comma -30

KPX D period -70  
KPX D comma -70  
KPX D Y -90  
KPX D W -40  
KPX D V -70  
KPX D A -40

KPX F r -45  
KPX F period -150  
KPX F o -30  
KPX F e -30  
KPX F comma -150  
KPX F a -50  
KPX F A -80

KPX J u -20  
KPX J period -30  
KPX J comma -30  
KPX J a -20  
KPX J A -20

KPX K y -50  
KPX K u -30  
KPX K o -40  
KPX K e -40  
KPX K O -50

KPX L y -30  
KPX L quoteright -160  
KPX L quotedblright -140  
KPX L Y -140  
KPX L W -70  
KPX L V -110

KPX L T -110

KPX O period -40  
KPX O comma -40  
KPX O Y -70  
KPX O X -60  
KPX O W -30  
KPX O V -50  
KPX O T -40  
KPX O A -20

KPX P period -180  
KPX P o -50  
KPX P e -50  
KPX P comma -180  
KPX P a -40  
KPX P A -120

KPX Q U -10

KPX R Y -50  
KPX R W -30  
KPX R V -50  
KPX R U -40  
KPX R T -30  
KPX R O -20

KPX S period -20  
KPX S comma -20

KPX T y -120  
KPX T w -120  
KPX T u -120  
KPX T semicolon -20  
KPX T r -120  
KPX T period -120  
KPX T o -120  
KPX T hyphen -140  
KPX T e -120  
KPX T comma -120  
KPX T colon -20  
KPX T a -120  
KPX T O -40  
KPX T A -120

KPX U period -40  
KPX U comma -40  
KPX U A -40



KPX V u -70  
KPX V semicolon -40  
KPX V period -125  
KPX V o -80  
KPX V hyphen -80  
KPX V e -80  
KPX V comma -125  
KPX V colon -40  
KPX V a -70  
KPX V O -40  
KPX V G -40  
KPX V A -80

KPX W y -20  
KPX W u -30  
KPX W period -80  
KPX W o -30  
KPX W hyphen -40  
KPX W e -30  
KPX W comma -80  
KPX W a -40  
KPX W O -20  
KPX W A -50

KPX Y u -110  
KPX Y semicolon -60  
KPX Y period -140  
KPX Y o -140  
KPX Y i -20  
KPX Y hyphen -140  
KPX Y e -140  
KPX Y comma -140  
KPX Y colon -60  
KPX Y a -140  
KPX Y O -85  
KPX Y A -110

KPX a y -30  
KPX a w -20  
KPX a v -20

KPX b y -20  
KPX b v -20  
KPX b u -20  
KPX b period -40  
KPX b l -20  
KPX b comma -40

KPX b b -10

KPX c k -20

KPX c comma -15

KPX colon space -50

KPX comma quoteright -100

KPX comma quotedblright -100

KPX e y -20

KPX e x -30

KPX e w -20

KPX e v -30

KPX e period -15

KPX e comma -15

KPX f quoteright 50

KPX f quotedblright 60

KPX f period -30

KPX f o -30

KPX f e -30

KPX f dotlessi -28

KPX f comma -30

KPX f a -30

KPX g r -10

KPX h y -30

KPX k o -20

KPX k e -20

KPX m y -15

KPX m u -10

KPX n y -15

KPX n v -20

KPX n u -10

KPX o y -30

KPX o x -30

KPX o w -15

KPX o v -15

KPX o period -40

KPX o comma -40

KPX oslash z -55

KPX oslash y -70  
KPX oslash x -85  
KPX oslash w -70  
KPX oslash v -70  
KPX oslash u -55  
KPX oslash t -55  
KPX oslash s -55  
KPX oslash r -55  
KPX oslash q -55  
KPX oslash period -95  
KPX oslash p -55  
KPX oslash o -55  
KPX oslash n -55  
KPX oslash m -55  
KPX oslash l -55  
KPX oslash k -55  
KPX oslash j -55  
KPX oslash i -55  
KPX oslash h -55  
KPX oslash g -55  
KPX oslash f -55  
KPX oslash e -55  
KPX oslash d -55  
KPX oslash comma -95  
KPX oslash c -55  
KPX oslash b -55  
KPX oslash a -55

KPX p y -30  
KPX p period -35  
KPX p comma -35

KPX period space -60  
KPX period quoteright -100  
KPX period quotedblright -100

KPX quotedblright space -40

KPX quoteleft quoteleft -57

KPX quoteright space -70  
KPX quoteright s -50  
KPX quoteright r -50  
KPX quoteright quoteright -57  
KPX quoteright d -50

KPX r y 30  
KPX r v 30

KPX r u 15  
KPX r t 40  
KPX r semicolon 30  
KPX r period -50  
KPX r p 30  
KPX r n 25  
KPX r m 25  
KPX r l 15  
KPX r k 15  
KPX r i 15  
KPX r comma -50  
KPX r colon 30  
KPX r a -10

KPX s w -30  
KPX s period -15  
KPX s comma -15

KPX semicolon space -50

KPX space quoteleft -60  
KPX space quotedblleft -30  
KPX space Y -90  
KPX space W -40  
KPX space V -50  
KPX space T -50

KPX v period -80  
KPX v o -25  
KPX v e -25  
KPX v comma -80  
KPX v a -25

KPX w period -60  
KPX w o -10  
KPX w e -10  
KPX w comma -60  
KPX w a -15

KPX x e -30

KPX y period -100  
KPX y o -20  
KPX y e -20  
KPX y comma -100  
KPX y a -20

KPX z o -15

KPX z e -15  
EndKernPairs  
EndKernData  
StartComposites 58  
CC Aacute 2 ; PCC A 0 0 ; PCC acute 208 195 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 208 195 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 208 195 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 208 195 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 204 175 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 208 195 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 208 195 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 208 195 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 208 195 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 208 195 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 14 195 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 14 195 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 14 195 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 14 195 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 246 195 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 264 195 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 264 195 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 264 195 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 264 195 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 264 195 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 208 195 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 236 195 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 236 195 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 236 195 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 236 195 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 208 195 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 208 195 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 180 195 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 102 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 84 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;

CC ntilde 2 ; PCC n 0 0 ; PCC tilde 102 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 112 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 112 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 84 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 112 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 112 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 112 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 112 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 84 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jul 2 22:48:39 1990

Comment UniqueID 31799

Comment VMusage 37656 48548

FontName Palatino-BoldItalic

FullName Palatino Bold Italic

FamilyName Palatino

Weight Bold

ItalicAngle -10

IsFixedPitch false

FontBBox -170 -271 1073 926

UnderlinePosition -100

UnderlineThickness 50

Version 001.005

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Palatino is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 681

XHeight 469

Ascender 726

Descender -271

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 58 -17 322 695 ;

C 34 ; WX 500 ; N quotedbl ; B 137 467 493 720 ;

C 35 ; WX 500 ; N numbersign ; B 4 0 496 673 ;

C 36 ; WX 500 ; N dollar ; B 20 -108 477 737 ;

C 37 ; WX 889 ; N percent ; B 56 -17 790 697 ;

C 38 ; WX 833 ; N ampersand ; B 74 -17 811 695 ;

C 39 ; WX 278 ; N quoteright ; B 76 431 302 720 ;

C 40 ; WX 333 ; N parenleft ; B 58 -129 368 723 ;

C 41 ; WX 333 ; N parenright ; B -12 -129 298 723 ;  
C 42 ; WX 444 ; N asterisk ; B 84 332 439 695 ;  
C 43 ; WX 606 ; N plus ; B 50 -5 556 501 ;  
C 44 ; WX 250 ; N comma ; B -33 -164 208 147 ;  
C 45 ; WX 389 ; N hyphen ; B 37 198 362 300 ;  
C 46 ; WX 250 ; N period ; B 48 -17 187 135 ;  
C 47 ; WX 315 ; N slash ; B 1 -17 315 720 ;  
C 48 ; WX 500 ; N zero ; B 42 -17 490 683 ;  
C 49 ; WX 500 ; N one ; B 41 -3 434 678 ;  
C 50 ; WX 500 ; N two ; B 1 -3 454 683 ;  
C 51 ; WX 500 ; N three ; B 8 -17 450 683 ;  
C 52 ; WX 500 ; N four ; B 3 -3 487 683 ;  
C 53 ; WX 500 ; N five ; B 14 -17 481 675 ;  
C 54 ; WX 500 ; N six ; B 39 -17 488 683 ;  
C 55 ; WX 500 ; N seven ; B 69 -3 544 674 ;  
C 56 ; WX 500 ; N eight ; B 26 -17 484 683 ;  
C 57 ; WX 500 ; N nine ; B 27 -17 491 683 ;  
C 58 ; WX 250 ; N colon ; B 38 -17 236 452 ;  
C 59 ; WX 250 ; N semicolon ; B -33 -164 247 452 ;  
C 60 ; WX 606 ; N less ; B 49 -21 558 517 ;  
C 61 ; WX 606 ; N equal ; B 51 106 555 390 ;  
C 62 ; WX 606 ; N greater ; B 48 -21 557 517 ;  
C 63 ; WX 444 ; N question ; B 91 -17 450 695 ;  
C 64 ; WX 833 ; N at ; B 82 -12 744 681 ;  
C 65 ; WX 722 ; N A ; B -35 -3 685 683 ;  
C 66 ; WX 667 ; N B ; B 8 -3 629 681 ;  
C 67 ; WX 685 ; N C ; B 69 -17 695 695 ;  
C 68 ; WX 778 ; N D ; B 0 -3 747 682 ;  
C 69 ; WX 611 ; N E ; B 11 -3 606 681 ;  
C 70 ; WX 556 ; N F ; B -6 -3 593 681 ;  
C 71 ; WX 778 ; N G ; B 72 -17 750 695 ;  
C 72 ; WX 778 ; N H ; B -12 -3 826 681 ;  
C 73 ; WX 389 ; N I ; B -1 -3 412 681 ;  
C 74 ; WX 389 ; N J ; B -29 -207 417 681 ;  
C 75 ; WX 722 ; N K ; B -10 -3 746 681 ;  
C 76 ; WX 611 ; N L ; B 26 -3 578 681 ;  
C 77 ; WX 944 ; N M ; B -23 -17 985 681 ;  
C 78 ; WX 778 ; N N ; B -2 -3 829 681 ;  
C 79 ; WX 833 ; N O ; B 76 -17 794 695 ;  
C 80 ; WX 667 ; N P ; B 11 -3 673 681 ;  
C 81 ; WX 833 ; N Q ; B 76 -222 794 695 ;  
C 82 ; WX 722 ; N R ; B 4 -3 697 681 ;  
C 83 ; WX 556 ; N S ; B 50 -17 517 695 ;  
C 84 ; WX 611 ; N T ; B 56 -3 674 681 ;  
C 85 ; WX 778 ; N U ; B 83 -17 825 681 ;  
C 86 ; WX 667 ; N V ; B 67 -3 745 681 ;  
C 87 ; WX 1000 ; N W ; B 67 -3 1073 689 ;  
C 88 ; WX 722 ; N X ; B -9 -3 772 681 ;

C 89 ; WX 611 ; N Y ; B 54 -3 675 695 ;  
C 90 ; WX 667 ; N Z ; B 1 -3 676 681 ;  
C 91 ; WX 333 ; N bracketleft ; B 45 -102 381 723 ;  
C 92 ; WX 606 ; N backslash ; B 72 0 534 720 ;  
C 93 ; WX 333 ; N bracketright ; B -21 -102 315 723 ;  
C 94 ; WX 606 ; N asciicircum ; B 63 275 543 678 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 65 431 291 720 ;  
C 97 ; WX 556 ; N a ; B 44 -17 519 470 ;  
C 98 ; WX 537 ; N b ; B 44 -17 494 726 ;  
C 99 ; WX 444 ; N c ; B 32 -17 436 469 ;  
C 100 ; WX 556 ; N d ; B 38 -17 550 726 ;  
C 101 ; WX 444 ; N e ; B 28 -17 418 469 ;  
C 102 ; WX 333 ; N f ; B -130 -271 449 726 ; L i f i ; L l f l ;  
C 103 ; WX 500 ; N g ; B -50 -271 529 469 ;  
C 104 ; WX 556 ; N h ; B 22 -17 522 726 ;  
C 105 ; WX 333 ; N i ; B 26 -17 312 695 ;  
C 106 ; WX 333 ; N j ; B -64 -271 323 695 ;  
C 107 ; WX 556 ; N k ; B 34 -17 528 726 ;  
C 108 ; WX 333 ; N l ; B 64 -17 318 726 ;  
C 109 ; WX 833 ; N m ; B 19 -17 803 469 ;  
C 110 ; WX 556 ; N n ; B 17 -17 521 469 ;  
C 111 ; WX 556 ; N o ; B 48 -17 502 469 ;  
C 112 ; WX 556 ; N p ; B -21 -271 516 469 ;  
C 113 ; WX 537 ; N q ; B 32 -271 513 469 ;  
C 114 ; WX 389 ; N r ; B 20 -17 411 469 ;  
C 115 ; WX 444 ; N s ; B 25 -17 406 469 ;  
C 116 ; WX 389 ; N t ; B 42 -17 409 636 ;  
C 117 ; WX 556 ; N u ; B 22 -17 521 469 ;  
C 118 ; WX 556 ; N v ; B 19 -17 513 469 ;  
C 119 ; WX 833 ; N w ; B 27 -17 802 469 ;  
C 120 ; WX 500 ; N x ; B -8 -17 500 469 ;  
C 121 ; WX 556 ; N y ; B 13 -271 541 469 ;  
C 122 ; WX 500 ; N z ; B 31 -17 470 469 ;  
C 123 ; WX 333 ; N braceleft ; B 18 -105 334 720 ;  
C 124 ; WX 606 ; N bar ; B 259 0 347 720 ;  
C 125 ; WX 333 ; N braceright ; B -1 -105 315 720 ;  
C 126 ; WX 606 ; N asciitilde ; B 51 151 555 346 ;  
C 161 ; WX 333 ; N exclamdown ; B 2 -225 259 479 ;  
C 162 ; WX 500 ; N cent ; B 52 -105 456 547 ;  
C 163 ; WX 500 ; N sterling ; B 21 -5 501 683 ;  
C 164 ; WX 167 ; N fraction ; B -170 0 338 683 ;  
C 165 ; WX 500 ; N yen ; B 11 -3 538 695 ;  
C 166 ; WX 500 ; N florin ; B 8 -242 479 690 ;  
C 167 ; WX 556 ; N section ; B 47 -151 497 695 ;  
C 168 ; WX 500 ; N currency ; B 32 96 468 533 ;  
C 169 ; WX 250 ; N quotesingle ; B 127 467 293 720 ;  
C 170 ; WX 500 ; N quotedblleft ; B 65 431 511 720 ;



C 171 ; WX 500 ; N guillemotleft ; B 35 43 458 446 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 60 43 292 446 ;  
C 173 ; WX 333 ; N guilsinglright ; B 35 40 267 443 ;  
C 174 ; WX 611 ; N fi ; B -130 -271 588 726 ;  
C 175 ; WX 611 ; N fl ; B -130 -271 631 726 ;  
C 177 ; WX 500 ; N endash ; B -12 214 512 282 ;  
C 178 ; WX 556 ; N dagger ; B 67 -3 499 685 ;  
C 179 ; WX 556 ; N daggerdbl ; B 33 -153 537 693 ;  
C 180 ; WX 250 ; N periodcentered ; B 67 172 206 324 ;  
C 182 ; WX 556 ; N paragraph ; B 14 -204 629 681 ;  
C 183 ; WX 606 ; N bullet ; B 131 172 475 516 ;  
C 184 ; WX 250 ; N quotesinglbase ; B -3 -144 220 145 ;  
C 185 ; WX 500 ; N quotedblbase ; B -18 -144 424 145 ;  
C 186 ; WX 500 ; N quotedblright ; B 73 431 519 720 ;  
C 187 ; WX 500 ; N guillemotright ; B 35 40 458 443 ;  
C 188 ; WX 1000 ; N ellipsis ; B 91 -17 896 135 ;  
C 189 ; WX 1000 ; N perthousand ; B 65 -17 912 691 ;  
C 191 ; WX 444 ; N questiondown ; B -12 -226 347 479 ;  
C 193 ; WX 333 ; N grave ; B 110 518 322 699 ;  
C 194 ; WX 333 ; N acute ; B 153 518 392 699 ;  
C 195 ; WX 333 ; N circumflex ; B 88 510 415 684 ;  
C 196 ; WX 333 ; N tilde ; B 82 535 441 654 ;  
C 197 ; WX 333 ; N macron ; B 76 538 418 608 ;  
C 198 ; WX 333 ; N breve ; B 96 518 412 680 ;  
C 199 ; WX 333 ; N dotaccent ; B 202 537 325 668 ;  
C 200 ; WX 333 ; N dieresis ; B 90 537 426 668 ;  
C 202 ; WX 556 ; N ring ; B 277 514 477 714 ;  
C 203 ; WX 333 ; N cedilla ; B 12 -218 248 5 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -28 518 409 699 ;  
C 206 ; WX 333 ; N ogonek ; B 32 -206 238 -17 ;  
C 207 ; WX 333 ; N caron ; B 113 510 445 684 ;  
C 208 ; WX 1000 ; N emdash ; B -12 214 1012 282 ;  
C 225 ; WX 944 ; N AE ; B -29 -3 927 681 ;  
C 227 ; WX 333 ; N ordfeminine ; B 47 391 355 684 ;  
C 232 ; WX 611 ; N Lslash ; B 6 -3 578 681 ;  
C 233 ; WX 833 ; N Oslash ; B 57 -54 797 730 ;  
C 234 ; WX 944 ; N OE ; B 39 -17 961 695 ;  
C 235 ; WX 333 ; N ordmasculine ; B 51 391 346 683 ;  
C 241 ; WX 738 ; N ae ; B 44 -17 711 469 ;  
C 245 ; WX 333 ; N dotlessi ; B 26 -17 293 469 ;  
C 248 ; WX 333 ; N lslash ; B 13 -17 365 726 ;  
C 249 ; WX 556 ; N oslash ; B 14 -50 522 506 ;  
C 250 ; WX 778 ; N oe ; B 48 -17 755 469 ;  
C 251 ; WX 556 ; N germandbls ; B -131 -271 549 726 ;  
C -1 ; WX 667 ; N Zcaron ; B 1 -3 676 896 ;  
C -1 ; WX 444 ; N ccedilla ; B 32 -218 436 469 ;  
C -1 ; WX 556 ; N ydieresis ; B 13 -271 541 688 ;  
C -1 ; WX 556 ; N atilde ; B 44 -17 553 666 ;

C -1 ; WX 333 ; N icircumflex ; B 26 -17 403 704 ;  
C -1 ; WX 300 ; N threesuperior ; B 23 263 310 683 ;  
C -1 ; WX 444 ; N ecircumflex ; B 28 -17 471 704 ;  
C -1 ; WX 556 ; N thorn ; B -21 -271 516 726 ;  
C -1 ; WX 444 ; N egrave ; B 28 -17 418 719 ;  
C -1 ; WX 300 ; N twosuperior ; B 26 271 321 683 ;  
C -1 ; WX 444 ; N eacute ; B 28 -17 448 719 ;  
C -1 ; WX 556 ; N otilde ; B 48 -17 553 666 ;  
C -1 ; WX 722 ; N Aacute ; B -35 -3 685 911 ;  
C -1 ; WX 556 ; N ocircumflex ; B 48 -17 515 704 ;  
C -1 ; WX 556 ; N yacute ; B 13 -271 541 719 ;  
C -1 ; WX 556 ; N udieresis ; B 22 -17 538 688 ;  
C -1 ; WX 750 ; N threequarters ; B 18 -2 732 683 ;  
C -1 ; WX 556 ; N acircumflex ; B 44 -17 527 704 ;  
C -1 ; WX 778 ; N Eth ; B 0 -3 747 682 ;  
C -1 ; WX 444 ; N edieresis ; B 28 -17 482 688 ;  
C -1 ; WX 556 ; N ugrave ; B 22 -17 521 719 ;  
C -1 ; WX 1000 ; N trademark ; B 38 274 961 678 ;  
C -1 ; WX 556 ; N ograve ; B 48 -17 502 719 ;  
C -1 ; WX 444 ; N scaron ; B 25 -17 489 692 ;  
C -1 ; WX 389 ; N Idieresis ; B -1 -3 454 880 ;  
C -1 ; WX 556 ; N uacute ; B 22 -17 521 719 ;  
C -1 ; WX 556 ; N agrave ; B 44 -17 519 719 ;  
C -1 ; WX 556 ; N tilde ; B 17 -17 553 666 ;  
C -1 ; WX 556 ; N aring ; B 44 -17 519 714 ;  
C -1 ; WX 500 ; N zcaron ; B 31 -17 517 692 ;  
C -1 ; WX 389 ; N Icircumflex ; B -1 -3 443 896 ;  
C -1 ; WX 778 ; N Ntilde ; B -2 -3 829 866 ;  
C -1 ; WX 556 ; N ucircumflex ; B 22 -17 521 704 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 11 -3 606 896 ;  
C -1 ; WX 389 ; N Iacute ; B -1 -3 420 911 ;  
C -1 ; WX 685 ; N Ccedilla ; B 69 -218 695 695 ;  
C -1 ; WX 833 ; N Odieresis ; B 76 -17 794 880 ;  
C -1 ; WX 556 ; N Scaron ; B 50 -17 557 896 ;  
C -1 ; WX 611 ; N Edieresis ; B 11 -3 606 880 ;  
C -1 ; WX 389 ; N Igrave ; B -1 -3 412 911 ;  
C -1 ; WX 556 ; N adieresis ; B 44 -17 538 688 ;  
C -1 ; WX 833 ; N Ograve ; B 76 -17 794 911 ;  
C -1 ; WX 611 ; N Egrave ; B 11 -3 606 911 ;  
C -1 ; WX 611 ; N Ydieresis ; B 54 -3 675 880 ;  
C -1 ; WX 747 ; N registered ; B 26 -17 720 695 ;  
C -1 ; WX 833 ; N Otilde ; B 76 -17 794 866 ;  
C -1 ; WX 750 ; N onequarter ; B 18 -2 732 683 ;  
C -1 ; WX 778 ; N Ugrave ; B 83 -17 825 911 ;  
C -1 ; WX 778 ; N Ucircumflex ; B 83 -17 825 896 ;  
C -1 ; WX 667 ; N Thorn ; B 11 -3 644 681 ;  
C -1 ; WX 606 ; N divide ; B 50 -5 556 501 ;  
C -1 ; WX 722 ; N Atilde ; B -35 -3 685 866 ;

C -1 ; WX 778 ; N Uacute ; B 83 -17 825 911 ;  
C -1 ; WX 833 ; N Ocircumflex ; B 76 -17 794 896 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 107 555 390 ;  
C -1 ; WX 722 ; N Aring ; B -35 -3 685 926 ;  
C -1 ; WX 333 ; N idieresis ; B 26 -17 426 688 ;  
C -1 ; WX 333 ; N iacute ; B 26 -17 392 719 ;  
C -1 ; WX 556 ; N aacute ; B 44 -17 519 719 ;  
C -1 ; WX 606 ; N plusminus ; B 50 0 556 501 ;  
C -1 ; WX 606 ; N multiply ; B 72 17 534 479 ;  
C -1 ; WX 778 ; N Udieresis ; B 83 -17 825 880 ;  
C -1 ; WX 606 ; N minus ; B 51 204 555 292 ;  
C -1 ; WX 300 ; N onesuperior ; B 41 271 298 680 ;  
C -1 ; WX 611 ; N Eacute ; B 11 -3 606 911 ;  
C -1 ; WX 722 ; N Acircumflex ; B -35 -3 685 896 ;  
C -1 ; WX 747 ; N copyright ; B 26 -17 720 695 ;  
C -1 ; WX 722 ; N Agrave ; B -35 -3 685 911 ;  
C -1 ; WX 556 ; N odieresis ; B 48 -17 538 688 ;  
C -1 ; WX 556 ; N oacute ; B 48 -17 504 719 ;  
C -1 ; WX 400 ; N degree ; B 50 383 350 683 ;  
C -1 ; WX 333 ; N igrave ; B 26 -17 322 719 ;  
C -1 ; WX 556 ; N mu ; B -15 -232 521 469 ;  
C -1 ; WX 833 ; N Oacute ; B 76 -17 794 911 ;  
C -1 ; WX 556 ; N eth ; B 48 -17 546 726 ;  
C -1 ; WX 722 ; N Adieresis ; B -35 -3 685 880 ;  
C -1 ; WX 611 ; N Yacute ; B 54 -3 675 911 ;  
C -1 ; WX 606 ; N brokenbar ; B 259 0 347 720 ;  
C -1 ; WX 750 ; N onehalf ; B 14 -2 736 683 ;

EndCharMetrics

StartKernData

StartKernPairs 108

KPX A y -55

KPX A w -37

KPX A v -55

KPX A space -55

KPX A quoteright -55

KPX A Y -74

KPX A W -74

KPX A V -74

KPX A T -55

KPX F space -18

KPX F period -111

KPX F comma -111

KPX F A -74

KPX L y -37

KPX L space -18

KPX L quoteright -55  
KPX L Y -74  
KPX L W -74  
KPX L V -74  
KPX L T -74

KPX P space -55  
KPX P period -129  
KPX P comma -129  
KPX P A -92

KPX R y -20  
KPX R Y -37  
KPX R W -55  
KPX R V -55  
KPX R T -37

KPX T y -80  
KPX T w -50  
KPX T u -92  
KPX T semicolon -55  
KPX T s -92  
KPX T r -92  
KPX T period -55  
KPX T o -111  
KPX T i -74  
KPX T hyphen -92  
KPX T e -111  
KPX T comma -55  
KPX T colon -55  
KPX T c -92  
KPX T a -111  
KPX T O -18  
KPX T A -55

KPX V y -50  
KPX V u -50  
KPX V semicolon -37  
KPX V r -74  
KPX V period -111  
KPX V o -74  
KPX V i -50  
KPX V hyphen -37  
KPX V e -74  
KPX V comma -111  
KPX V colon -37  
KPX V a -92  
KPX V A -74

KPX W y -30  
KPX W u -30  
KPX W semicolon -18  
KPX W r -30  
KPX W period -55  
KPX W o -55  
KPX W i -30  
KPX W e -55  
KPX W comma -55  
KPX W colon -28  
KPX W a -74  
KPX W A -74

KPX Y v -30  
KPX Y u -50  
KPX Y semicolon -55  
KPX Y q -92  
KPX Y period -55  
KPX Y p -74  
KPX Y o -111  
KPX Y i -54  
KPX Y hyphen -55  
KPX Y e -92  
KPX Y comma -55  
KPX Y colon -55  
KPX Y a -111  
KPX Y A -55

KPX f quoteright 37  
KPX f f -37

KPX one one -55

KPX quoteleft quoteleft -55

KPX quoteright t -18  
KPX quoteright space -37  
KPX quoteright s -37  
KPX quoteright quoteright -55

KPX r quoteright 55  
KPX r q -18  
KPX r period -55  
KPX r o -18  
KPX r h -18  
KPX r g -18  
KPX r e -18

KPX r comma -55

KPX r c -18

KPX v period -55

KPX v comma -55

KPX w period -55

KPX w comma -55

KPX y period -37

KPX y comma -37

EndKernPairs

EndKernData

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 212 ;

CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 212 ;

CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 212 ;

CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 212 ;

CC Aring 2 ; PCC A 0 0 ; PCC ring 83 212 ;

CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 212 ;

CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;

CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 212 ;

CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 212 ;

CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 212 ;

CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 212 ;

CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 212 ;

CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 212 ;

CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 212 ;

CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 212 ;

CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 223 212 ;

CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 212 ;

CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 212 ;

CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 212 ;

CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 212 ;

CC Otilde 2 ; PCC O 0 0 ; PCC tilde 250 212 ;

CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 212 ;

CC Uacute 2 ; PCC U 0 0 ; PCC acute 223 212 ;

CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 223 212 ;

CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 223 212 ;

CC Ugrave 2 ; PCC U 0 0 ; PCC grave 211 212 ;

CC Yacute 2 ; PCC Y 0 0 ; PCC acute 151 212 ;

CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 212 ;

CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 212 ;

CC aacute 2 ; PCC a 0 0 ; PCC acute 112 20 ;

CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 20 ;

CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 20 ;

CC agrave 2 ; PCC a 0 0 ; PCC grave 112 20 ;

CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;

CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 12 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 20 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 20 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 56 20 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 56 20 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 20 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -12 20 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis 0 20 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 20 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 112 12 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 20 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 100 20 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 20 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 20 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 112 12 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 44 8 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 112 20 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 100 20 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 112 20 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 112 20 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 112 20 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 20 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 72 8 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date:Mon Jan 11 16:46:06 PST 1988

FontName Helvetica-Light

EncodingScheme AdobeStandardEncoding

FullName Helvetica Light

FamilyName Helvetica

Weight Light

ItalicAngle 0.0

IsFixedPitch false

UnderlinePosition -90

UnderlineThickness 58

Version 001.002

Notice Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype Company.

FontBBox -164 -212 1000 979

CapHeight 720

XHeight 518

Descender -204

Ascender 720

StartCharMetrics 228

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 130 0 203 720 ;  
C 34 ; WX 278 ; N quotedbl ; B 57 494 220 720 ;  
C 35 ; WX 556 ; N numbersign ; B 27 0 530 698 ;  
C 36 ; WX 556 ; N dollar ; B 37 -95 518 766 ;  
C 37 ; WX 889 ; N percent ; B 67 -14 821 705 ;  
C 38 ; WX 667 ; N ampersand ; B 41 -19 644 720 ;  
C 39 ; WX 222 ; N quoteright ; B 80 495 153 720 ;  
C 40 ; WX 333 ; N parenleft ; B 55 -191 277 739 ;  
C 41 ; WX 333 ; N parenright ; B 56 -191 278 739 ;  
C 42 ; WX 389 ; N asterisk ; B 44 434 344 720 ;  
C 43 ; WX 660 ; N plus ; B 80 0 580 500 ;  
C 44 ; WX 278 ; N comma ; B 102 -137 175 88 ;  
C 45 ; WX 333 ; N hyphen ; B 40 229 293 291 ;  
C 46 ; WX 278 ; N period ; B 102 0 175 88 ;  
C 47 ; WX 278 ; N slash ; B -3 -90 288 739 ;  
C 48 ; WX 556 ; N zero ; B 39 -14 516 705 ;  
C 49 ; WX 556 ; N one ; B 120 0 366 705 ;  
C 50 ; WX 556 ; N two ; B 48 0 515 705 ;  
C 51 ; WX 556 ; N three ; B 34 -14 512 705 ;  
C 52 ; WX 556 ; N four ; B 36 0 520 698 ;  
C 53 ; WX 556 ; N five ; B 35 -14 506 698 ;  
C 54 ; WX 556 ; N six ; B 41 -14 514 705 ;  
C 55 ; WX 556 ; N seven ; B 59 0 508 698 ;  
C 56 ; WX 556 ; N eight ; B 44 -14 512 705 ;  
C 57 ; WX 556 ; N nine ; B 41 -14 515 705 ;  
C 58 ; WX 278 ; N colon ; B 102 0 175 492 ;  
C 59 ; WX 278 ; N semicolon ; B 102 -137 175 492 ;  
C 60 ; WX 660 ; N less ; B 80 -6 580 505 ;  
C 61 ; WX 660 ; N equal ; B 80 124 580 378 ;  
C 62 ; WX 660 ; N greater ; B 80 -6 580 505 ;  
C 63 ; WX 500 ; N question ; B 37 0 472 739 ;  
C 64 ; WX 800 ; N at ; B 40 -19 760 739 ;  
C 65 ; WX 667 ; N A ; B 15 0 651 720 ;  
C 66 ; WX 667 ; N B ; B 81 0 610 720 ;  
C 67 ; WX 722 ; N C ; B 48 -19 670 739 ;  
C 68 ; WX 722 ; N D ; B 81 0 669 720 ;  
C 69 ; WX 611 ; N E ; B 81 0 570 720 ;  
C 70 ; WX 556 ; N F ; B 74 0 538 720 ;  
C 71 ; WX 778 ; N G ; B 53 -19 695 739 ;  
C 72 ; WX 722 ; N H ; B 80 0 642 720 ;  
C 73 ; WX 278 ; N I ; B 105 0 173 720 ;  
C 74 ; WX 500 ; N J ; B 22 -19 415 720 ;  
C 75 ; WX 667 ; N K ; B 85 0 649 720 ;  
C 76 ; WX 556 ; N L ; B 81 0 535 720 ;  
C 77 ; WX 833 ; N M ; B 78 0 755 720 ;  
C 78 ; WX 722 ; N N ; B 79 0 642 720 ;  
C 79 ; WX 778 ; N O ; B 53 -19 724 739 ;  
C 80 ; WX 611 ; N P ; B 78 0 576 720 ;



C 81 ; WX 778 ; N Q ; B 48 -52 719 739 ;  
C 82 ; WX 667 ; N R ; B 80 0 612 720 ;  
C 83 ; WX 611 ; N S ; B 43 -19 567 739 ;  
C 84 ; WX 556 ; N T ; B 16 0 540 720 ;  
C 85 ; WX 722 ; N U ; B 82 -19 640 720 ;  
C 86 ; WX 611 ; N V ; B 18 0 593 720 ;  
C 87 ; WX 889 ; N W ; B 14 0 875 720 ;  
C 88 ; WX 611 ; N X ; B 18 0 592 720 ;  
C 89 ; WX 611 ; N Y ; B 12 0 598 720 ;  
C 90 ; WX 611 ; N Z ; B 31 0 579 720 ;  
C 91 ; WX 333 ; N bracketleft ; B 91 -191 282 739 ;  
C 92 ; WX 278 ; N backslash ; B -46 0 324 739 ;  
C 93 ; WX 333 ; N bracketright ; B 51 -191 242 739 ;  
C 94 ; WX 660 ; N asciicircum ; B 73 245 586 698 ;  
C 95 ; WX 500 ; N underscore ; B 0 -119 500 -61 ;  
C 96 ; WX 222 ; N quoteleft ; B 69 495 142 720 ;  
C 97 ; WX 556 ; N a ; B 46 -14 534 532 ;  
C 98 ; WX 611 ; N b ; B 79 -14 555 720 ;  
C 99 ; WX 556 ; N c ; B 47 -14 508 532 ;  
C 100 ; WX 611 ; N d ; B 56 -14 532 720 ;  
C 101 ; WX 556 ; N e ; B 45 -14 511 532 ;  
C 102 ; WX 278 ; N f ; B 20 0 257 734 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 56 -212 532 532 ;  
C 104 ; WX 556 ; N h ; B 72 0 483 720 ;  
C 105 ; WX 222 ; N i ; B 78 0 144 720 ;  
C 106 ; WX 222 ; N j ; B 5 -204 151 720 ;  
C 107 ; WX 500 ; N k ; B 68 0 487 720 ;  
C 108 ; WX 222 ; N l ; B 81 0 141 720 ;  
C 109 ; WX 833 ; N m ; B 64 0 768 532 ;  
C 110 ; WX 556 ; N n ; B 72 0 483 532 ;  
C 111 ; WX 556 ; N o ; B 38 -14 518 532 ;  
C 112 ; WX 611 ; N p ; B 79 -204 555 532 ;  
C 113 ; WX 611 ; N q ; B 56 -204 532 532 ;  
C 114 ; WX 333 ; N r ; B 75 0 306 532 ;  
C 115 ; WX 500 ; N s ; B 46 -14 454 532 ;  
C 116 ; WX 278 ; N t ; B 20 -14 254 662 ;  
C 117 ; WX 556 ; N u ; B 72 -14 483 518 ;  
C 118 ; WX 500 ; N v ; B 17 0 483 518 ;  
C 119 ; WX 722 ; N w ; B 15 0 707 518 ;  
C 120 ; WX 500 ; N x ; B 18 0 481 518 ;  
C 121 ; WX 500 ; N y ; B 18 -204 482 518 ;  
C 122 ; WX 500 ; N z ; B 33 0 467 518 ;  
C 123 ; WX 333 ; N braceleft ; B 45 -191 279 739 ;  
C 124 ; WX 222 ; N bar ; B 81 0 141 739 ;  
C 125 ; WX 333 ; N braceright ; B 51 -187 285 743 ;  
C 126 ; WX 660 ; N asciitilde ; B 80 174 580 339 ;  
C 161 ; WX 333 ; N exclamdown ; B 130 -187 203 532 ;  
C 162 ; WX 556 ; N cent ; B 45 -141 506 647 ;

C 163 ; WX 556 ; N sterling ; B 25 -14 530 705 ;  
C 164 ; WX 167 ; N fraction ; B -164 -14 331 705 ;  
C 165 ; WX 556 ; N yen ; B 4 0 552 720 ;  
C 166 ; WX 556 ; N florin ; B 13 -196 539 734 ;  
C 167 ; WX 556 ; N section ; B 48 -181 508 739 ;  
C 168 ; WX 556 ; N currency ; B 27 50 529 553 ;  
C 169 ; WX 222 ; N quotesingle ; B 85 494 137 720 ;  
C 170 ; WX 389 ; N quotedblleft ; B 86 495 310 720 ;  
C 171 ; WX 556 ; N guillemotleft ; B 113 117 443 404 ;  
C 172 ; WX 389 ; N guilsinglleft ; B 121 117 267 404 ;  
C 173 ; WX 389 ; N guilsinglright ; B 122 117 268 404 ;  
C 174 ; WX 500 ; N fi ; B 13 0 435 734 ;  
C 175 ; WX 500 ; N fl ; B 13 0 432 734 ;  
C 177 ; WX 500 ; N endash ; B 0 238 500 282 ;  
C 178 ; WX 556 ; N dagger ; B 37 -166 519 720 ;  
C 179 ; WX 556 ; N daggerdbl ; B 37 -166 519 720 ;  
C 180 ; WX 278 ; N periodcentered ; B 90 301 187 398 ;  
C 182 ; WX 650 ; N paragraph ; B 66 -146 506 720 ;  
C 183 ; WX 500 ; N bullet ; B 70 180 430 540 ;  
C 184 ; WX 222 ; N quotesinglbase ; B 80 -137 153 88 ;  
C 185 ; WX 389 ; N quotedblbase ; B 79 -137 303 88 ;  
C 186 ; WX 389 ; N quotedblright ; B 79 495 303 720 ;  
C 187 ; WX 556 ; N guillemotright ; B 113 117 443 404 ;  
C 188 ; WX 1000 ; N ellipsis ; B 131 0 870 88 ;  
C 189 ; WX 1000 ; N perthousand ; B 14 -14 985 705 ;  
C 191 ; WX 500 ; N questiondown ; B 28 -207 463 532 ;  
C 193 ; WX 333 ; N grave ; B 45 574 234 713 ;  
C 194 ; WX 333 ; N acute ; B 109 574 297 713 ;  
C 195 ; WX 333 ; N circumflex ; B 24 574 318 713 ;  
C 196 ; WX 333 ; N tilde ; B 16 586 329 688 ;  
C 197 ; WX 333 ; N macron ; B 23 612 319 657 ;  
C 198 ; WX 333 ; N breve ; B 28 580 316 706 ;  
C 199 ; WX 333 ; N dotaccent ; B 134 584 199 686 ;  
C 200 ; WX 333 ; N dieresis ; B 60 584 284 686 ;  
C 202 ; WX 333 ; N ring ; B 67 578 266 777 ;  
C 203 ; WX 333 ; N cedilla ; B 54 -207 257 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 109 574 459 713 ;  
C 206 ; WX 333 ; N ogonek ; B 74 -190 228 0 ;  
C 207 ; WX 333 ; N caron ; B 24 574 318 713 ;  
C 208 ; WX 1000 ; N emdash ; B 0 238 1000 282 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 960 720 ;  
C 227 ; WX 334 ; N ordfeminine ; B 8 307 325 739 ;  
C 232 ; WX 556 ; N Lslash ; B 0 0 535 720 ;  
C 233 ; WX 778 ; N Oslash ; B 42 -37 736 747 ;  
C 234 ; WX 1000 ; N OE ; B 41 -19 967 739 ;  
C 235 ; WX 334 ; N ordmasculine ; B 11 307 323 739 ;  
C 241 ; WX 889 ; N ae ; B 39 -14 847 532 ;  
C 245 ; WX 222 ; N dotlessi ; B 78 0 138 518 ;

C 248 ; WX 222 ; N Slash ; B 10 0 212 720 ;  
C 249 ; WX 556 ; N slash ; B 35 -23 521 541 ;  
C 250 ; WX 944 ; N oe ; B 36 -14 904 532 ;  
C 251 ; WX 500 ; N germandbls ; B 52 -14 459 734 ;  
C -1 ; WX 667 ; N Acute ; B 15 0 651 915 ;  
C -1 ; WX 667 ; N Acircumflex ; B 15 0 651 915 ;  
C -1 ; WX 667 ; N Adieresis ; B 15 0 651 888 ;  
C -1 ; WX 667 ; N Agrave ; B 15 0 651 915 ;  
C -1 ; WX 667 ; N Aring ; B 15 0 651 979 ;  
C -1 ; WX 667 ; N Atilde ; B 15 0 651 890 ;  
C -1 ; WX 722 ; N Ccedilla ; B 48 -207 670 739 ;  
C -1 ; WX 611 ; N Eacute ; B 81 0 570 915 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 81 0 570 915 ;  
C -1 ; WX 611 ; N Edieresis ; B 81 0 570 888 ;  
C -1 ; WX 611 ; N Egrave ; B 81 0 570 915 ;  
C -1 ; WX 722 ; N Eth ; B 10 0 669 720 ;  
C -1 ; WX 278 ; N Iacute ; B 62 0 250 915 ;  
C -1 ; WX 278 ; N Icircumflex ; B -23 0 271 915 ;  
C -1 ; WX 278 ; N Idieresis ; B 13 0 237 888 ;  
C -1 ; WX 278 ; N Igrave ; B 18 0 207 915 ;  
C -1 ; WX 722 ; N Ntilde ; B 79 0 642 890 ;  
C -1 ; WX 778 ; N Oacute ; B 53 -19 724 915 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 53 -19 724 915 ;  
C -1 ; WX 778 ; N Odieresis ; B 53 -19 724 888 ;  
C -1 ; WX 778 ; N Ograve ; B 53 -19 724 915 ;  
C -1 ; WX 778 ; N Otilde ; B 53 -19 724 890 ;  
C -1 ; WX 611 ; N Scaron ; B 43 -19 567 915 ;  
C -1 ; WX 611 ; N Thorn ; B 78 0 576 720 ;  
C -1 ; WX 722 ; N Uacute ; B 82 -19 640 915 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 82 -19 640 915 ;  
C -1 ; WX 722 ; N Udieresis ; B 82 -19 640 888 ;  
C -1 ; WX 722 ; N Ugrave ; B 82 -19 640 915 ;  
C -1 ; WX 611 ; N Yacute ; B 12 0 598 915 ;  
C -1 ; WX 611 ; N Ydieresis ; B 12 0 598 888 ;  
C -1 ; WX 611 ; N Zcaron ; B 31 0 579 915 ;  
C -1 ; WX 556 ; N acute ; B 46 -14 534 713 ;  
C -1 ; WX 556 ; N acircumflex ; B 46 -14 534 713 ;  
C -1 ; WX 556 ; N adieresis ; B 46 -14 534 686 ;  
C -1 ; WX 556 ; N agrave ; B 46 -14 534 713 ;  
C -1 ; WX 556 ; N aring ; B 46 -14 534 777 ;  
C -1 ; WX 556 ; N atilde ; B 46 -14 534 688 ;  
C -1 ; WX 222 ; N brokenbar ; B 81 0 141 739 ;  
C -1 ; WX 556 ; N ccedilla ; B 47 -207 508 532 ;  
C -1 ; WX 800 ; N copyright ; B 21 -19 779 739 ;  
C -1 ; WX 400 ; N degree ; B 50 405 350 705 ;  
C -1 ; WX 660 ; N divide ; B 80 0 580 500 ;  
C -1 ; WX 556 ; N eacute ; B 45 -14 511 713 ;  
C -1 ; WX 556 ; N ecircumflex ; B 45 -14 511 713 ;

C -1 ; WX 556 ; N edieresis ; B 45 -14 511 686 ;  
C -1 ; WX 556 ; N egrave ; B 45 -14 511 713 ;  
C -1 ; WX 556 ; N eth ; B 38 -14 518 739 ;  
C -1 ; WX 222 ; N iacute ; B 34 0 222 713 ;  
C -1 ; WX 222 ; N icircumflex ; B -51 0 243 713 ;  
C -1 ; WX 222 ; N idieresis ; B -15 0 209 686 ;  
C -1 ; WX 222 ; N igrave ; B -10 0 179 713 ;  
C -1 ; WX 660 ; N logicalnot ; B 80 112 580 378 ;  
C -1 ; WX 660 ; N minus ; B 80 220 580 280 ;  
C -1 ; WX 556 ; N mu ; B 72 -204 483 518 ;  
C -1 ; WX 660 ; N multiply ; B 83 6 578 500 ;  
C -1 ; WX 556 ; N tilde ; B 72 0 483 688 ;  
C -1 ; WX 556 ; N oacute ; B 38 -14 518 713 ;  
C -1 ; WX 556 ; N ocircumflex ; B 38 -14 518 713 ;  
C -1 ; WX 556 ; N odieresis ; B 38 -14 518 686 ;  
C -1 ; WX 556 ; N ograve ; B 38 -14 518 713 ;  
C -1 ; WX 834 ; N onehalf ; B 40 -14 794 739 ;  
C -1 ; WX 834 ; N onequarter ; B 40 -14 794 739 ;  
C -1 ; WX 333 ; N onesuperior ; B 87 316 247 739 ;  
C -1 ; WX 556 ; N otilde ; B 38 -14 518 688 ;  
C -1 ; WX 660 ; N plusminus ; B 80 0 580 500 ;  
C -1 ; WX 800 ; N registered ; B 21 -19 779 739 ;  
C -1 ; WX 500 ; N scaron ; B 46 -14 454 713 ;  
C -1 ; WX 611 ; N thorn ; B 79 -204 555 720 ;  
C -1 ; WX 834 ; N threequarters ; B 40 -14 794 739 ;  
C -1 ; WX 333 ; N threesuperior ; B 11 308 322 739 ;  
C -1 ; WX 940 ; N trademark ; B 29 299 859 720 ;  
C -1 ; WX 333 ; N twosuperior ; B 15 316 318 739 ;  
C -1 ; WX 556 ; N uacute ; B 72 -14 483 713 ;  
C -1 ; WX 556 ; N ucircumflex ; B 72 -14 483 713 ;  
C -1 ; WX 556 ; N udieresis ; B 72 -14 483 686 ;  
C -1 ; WX 556 ; N ugrave ; B 72 -14 483 713 ;  
C -1 ; WX 500 ; N yacute ; B 18 -204 482 713 ;  
C -1 ; WX 500 ; N ydieresis ; B 18 -204 482 686 ;  
C -1 ; WX 500 ; N zcaron ; B 33 0 467 713 ;

EndCharMetrics

StartKernData

StartKernPairs 115

KPX A y -18

KPX A w -18

KPX A v -18

KPX A quoteright -74

KPX A Y -74

KPX A W -37

KPX A V -74

KPX A T -92

KPX F period -129  
KPX F comma -129  
KPX F A -55

KPX L y -37  
KPX L quoteright -74  
KPX L Y -111  
KPX L W -55  
KPX L V -92  
KPX L T -92

KPX P period -129  
KPX P comma -129  
KPX P A -74

KPX R y 0  
KPX R Y -37  
KPX R W -18  
KPX R V -18  
KPX R T -18

KPX T y -84  
KPX T w -84  
KPX T u -92  
KPX T semicolon -111  
KPX T s -111  
KPX T r -92  
KPX T period -111  
KPX T o -111  
KPX T i 0  
KPX T hyphen -129  
KPX T e -111  
KPX T comma -111  
KPX T colon -111  
KPX T c -111  
KPX T a -111  
KPX T A -92

KPX V y -18  
KPX V u -37  
KPX V semicolon -74  
KPX V r -37  
KPX V period -129  
KPX V o -55  
KPX V i -18  
KPX V hyphen -55  
KPX V e -55  
KPX V comma -129

KPX V colon -74

KPX V a -55

KPX V A -74

KPX W y 0

KPX W u -18

KPX W semicolon -18

KPX W r -18

KPX W period -74

KPX W o -18

KPX W i 0

KPX W hyphen 0

KPX W e -18

KPX W comma -74

KPX W colon -18

KPX W a -37

KPX W A -37

KPX Y v -40

KPX Y u -37

KPX Y semicolon -92

KPX Y q -92

KPX Y period -111

KPX Y p -37

KPX Y o -92

KPX Y i -20

KPX Y hyphen -111

KPX Y e -92

KPX Y comma -111

KPX Y colon -92

KPX Y a -92

KPX Y A -74

KPX f quoteright 18

KPX f f -18

KPX quoteleft quoteleft -18

KPX quoteright t -18

KPX quoteright s -74

KPX quoteright quoteright -18

KPX r z 0

KPX r y 18

KPX r x 0

KPX r w 0

KPX r v 0

KPX r u 0

KPX r t 18  
KPX r r 0  
KPX r quoteright 0  
KPX r q -18  
KPX r period -92  
KPX r o -18  
KPX r n 18  
KPX r m 18  
KPX r hyphen -55  
KPX r h 0  
KPX r g 0  
KPX r f 18  
KPX r e -18  
KPX r d -18  
KPX r comma -92  
KPX r c -18

KPX v period -74  
KPX v comma -74

KPX w period -55  
KPX w comma -55

KPX y period -92  
KPX y comma -92

EndKernPairs

EndKernData

StartComposites 58

CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 202 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 83 0 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 202 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 83 0 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 194 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 111 0 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 139 202 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 83 0 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 202 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 83 0 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 202 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 202 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 202 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 202 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 111 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 111 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 111 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 111 0 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -47 202 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -47 202 ;

CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -47 202 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 202 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -75 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -75 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -75 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -55 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 202 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 202 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 202 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 202 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 111 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 111 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 111 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 111 0 ;  
CC Aacute 2 ; PCC A 0 0 ; PCC acute 167 202 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 167 202 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 167 202 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 167 202 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 111 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 111 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 111 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 111 0 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 222 202 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 222 202 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 222 202 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 222 202 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 111 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 111 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 111 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 111 0 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 202 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 111 0 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 194 202 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 111 0 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 222 202 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 111 0 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 187 202 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 111 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Creation Date: Thu Jun 21 22:23:20 1990  
Comment UniqueID 5000774  
FontName CMEX10  
EncodingScheme FontSpecific  
FullName CMEX10  
FamilyName Computer Modern  
Weight Medium



ItalicAngle 0  
 IsFixedPitch false  
 Version 1.00  
 Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.  
 Comment Computer Modern fonts were designed by Donald E. Knuth  
 FontBBox -24 -2960 1454 772  
 XHeight 430.556  
 Comment CapHeight 0  
 Ascender 750  
 Comment Descender -1760  
 Descender -2960  
 Comment FontID CMEX  
 Comment DesignSize 10 (pts)  
 Comment CharacterCodingScheme TeX math extension  
 Comment Space 0 0 0  
 Comment ExtraSpace 0  
 Comment Quad 1000  
 Comment DefaultRuleThickness 40  
 Comment BigOpSpacing 111.111 166.667 200 600 100  
 Comment Ascendible characters (74) % macro - PS charname  
 Comment Ascending 0, 16, 18, 32, 48 % ( - parenleft  
 Comment Ascending 1, 17, 19, 33, 49 % ) - parenright  
 Comment Ascending 2, 104, 20, 34, 50 % [ - bracketleft  
 Comment Ascending 3, 105, 21, 35, 51 % ] - bracketright  
 Comment Ascending 4, 106, 22, 36, 52 % lfloor - floorleft  
 Comment Ascending 5, 107, 23, 37, 53 % rfloor - floorright  
 Comment Ascending 6, 108, 24, 38, 54 % lceil - ceilingleft  
 Comment Ascending 7, 109, 25, 39, 55 % rceil - ceilingright  
 Comment Ascending 8, 110, 26, 40, 56 % { - braceleft  
 Comment Ascending 9, 111, 27, 41, 57 % } - braceright  
 Comment Ascending 10, 68, 28, 42 % < - anglebracketleft  
 Comment Ascending 11, 69, 29, 43 % > - anglebracketright  
 Comment Ascending 14, 46, 30, 44 % / - slash  
 Comment Ascending 15, 47, 31, 45 % \ - backslash  
 Comment Ascending 70, 71 % bigsqcup - unionsq  
 Comment Ascending 72, 73 % oint - contintegral  
 Comment Ascending 74, 75 % bigodot - circledot  
 Comment Ascending 76, 77 % bigoplus - circleplus  
 Comment Ascending 78, 79 % bigotimes - circlemultiply  
 Comment Ascending 80, 88 % sum - summation  
 Comment Ascending 81, 89 % prod - product  
 Comment Ascending 82, 90 % int - integral  
 Comment Ascending 83, 91 % bigcup - union  
 Comment Ascending 84, 92 % bigcap - intersection  
 Comment Ascending 85, 93 % biguplus - unionmulti  
 Comment Ascending 86, 94 % bigwedge - logicaland  
 Comment Ascending 87, 95 % bigvee - logicalor  
 Comment Ascending 96, 97 % coprod - coproduct

Comment Ascending 98, 99, 100 % widehat - hatwide  
 Comment Ascending 101, 102, 103 % widetilde - tildewide  
 Comment Ascending 112, 113, 114, 115, 116 % radical - sqrt  
 Comment Extensible characters (28)  
 Comment Extensible 12 top 0 mid 0 bot 0 rep 12 % vert - thin bar  
 Comment Extensible 13 top 0 mid 0 bot 0 rep 13 % Vert - thin double bar  
 Comment Extensible 48 top 48 mid 0 bot 64 rep 66 % ( - parenleft  
 Comment Extensible 49 top 49 mid 0 bot 65 rep 67 % ) - parenright  
 Comment Extensible 50 top 50 mid 0 bot 52 rep 54 % [ - bracketleft  
 Comment Extensible 51 top 51 mid 0 bot 53 rep 55 % ] - bracketright  
 Comment Extensible 52 top 0 mid 0 bot 52 rep 54 % lfloor - floorleft  
 Comment Extensible 53 top 0 mid 0 bot 53 rep 55 % rfloor - floorright  
 Comment Extensible 54 top 50 mid 0 bot 0 rep 54 % lceil - ceilingleft  
 Comment Extensible 55 top 51 mid 0 bot 0 rep 55 % rceil - ceilingright  
 Comment Extensible 56 top 56 mid 60 bot 58 rep 62 % { - braceleft  
 Comment Extensible 57 top 57 mid 61 bot 59 rep 62 % } - braceright  
 Comment Extensible 58 top 56 mid 0 bot 58 rep 62 % lgroup  
 Comment Extensible 59 top 57 mid 0 bot 59 rep 62 % rgroup  
 Comment Extensible 60 top 0 mid 0 bot 0 rep 63 % arrowvert  
 Comment Extensible 61 top 0 mid 0 bot 0 rep 119 % Arrowvert  
 Comment Extensible 62 top 0 mid 0 bot 0 rep 62 % bracevert  
 Comment Extensible 63 top 120 mid 0 bot 121 rep 63 % updownarrow  
 Comment Extensible 64 top 56 mid 0 bot 59 rep 62 % lmoustache  
 Comment Extensible 65 top 57 mid 0 bot 58 rep 62 % rmoustache  
 Comment Extensible 66 top 0 mid 0 bot 0 rep 66 % parenlefttexten  
 Comment Extensible 67 top 0 mid 0 bot 0 rep 67 % parenrighttexten  
 Comment Extensible 116 top 118 mid 0 bot 116 rep 117 % radical  
 Comment Extensible 119 top 126 mid 0 bot 127 rep 119 % Updownarrow  
 Comment Extensible 120 top 120 mid 0 bot 0 rep 63 % uparrow  
 Comment Extensible 121 top 0 mid 0 bot 121 rep 63 % downarrow  
 Comment Extensible 126 top 126 mid 0 bot 0 rep 119 % Uparrow  
 Comment Extensible 127 top 0 mid 0 bot 127 rep 119 % Downarrow  
 StartCharMetrics 129  
 C 0 ; WX 458.333 ; N parenleftbig ; B 152 -1159 413 40 ;  
 C 1 ; WX 458.333 ; N parenrightbig ; B 44 -1159 305 40 ;  
 C 2 ; WX 416.667 ; N bracketleftbig ; B 202 -1159 394 40 ;  
 C 3 ; WX 416.667 ; N bracketrightbig ; B 22 -1159 214 40 ;  
 C 4 ; WX 472.222 ; N floorleftbig ; B 202 -1159 449 40 ;  
 C 5 ; WX 472.222 ; N floorrightbig ; B 22 -1159 269 40 ;  
 C 6 ; WX 472.222 ; N ceilingleftbig ; B 202 -1159 449 40 ;  
 C 7 ; WX 472.222 ; N ceilingrightbig ; B 22 -1159 269 40 ;  
 C 8 ; WX 583.333 ; N braceleftbig ; B 113 -1159 469 40 ;  
 C 9 ; WX 583.333 ; N bracerightbig ; B 113 -1159 469 40 ;  
 C 10 ; WX 472.222 ; N angbracketleftbig ; B 98 -1160 393 40 ;  
 C 11 ; WX 472.222 ; N angbracketrightbig ; B 78 -1160 373 40 ;  
 C 12 ; WX 333.333 ; N vextendsingle ; B 145 -621 188 21 ;  
 C 13 ; WX 555.556 ; N vextenddouble ; B 145 -621 410 21 ;  
 C 14 ; WX 577.778 ; N slashbig ; B 56 -1159 521 40 ;

C 15 ; WX 577.778 ; N backslashbig ; B 56 -1159 521 40 ;  
C 16 ; WX 597.222 ; N parenleftBig ; B 180 -1759 560 40 ;  
C 17 ; WX 597.222 ; N parenrightBig ; B 36 -1759 416 40 ;  
C 18 ; WX 736.111 ; N parenleftbigg ; B 208 -2359 700 40 ;  
C 19 ; WX 736.111 ; N parenrightbigg ; B 35 -2359 527 40 ;  
C 20 ; WX 527.778 ; N bracketleftbigg ; B 250 -2359 513 40 ;  
C 21 ; WX 527.778 ; N bracketrightbigg ; B 14 -2359 277 40 ;  
C 22 ; WX 583.333 ; N floorleftbigg ; B 250 -2359 568 40 ;  
C 23 ; WX 583.333 ; N floorrighbigg ; B 14 -2359 332 40 ;  
C 24 ; WX 583.333 ; N ceilingleftbigg ; B 250 -2359 568 40 ;  
C 25 ; WX 583.333 ; N ceilingrighbigg ; B 14 -2359 332 40 ;  
C 26 ; WX 750 ; N braceleftbigg ; B 131 -2359 618 40 ;  
C 27 ; WX 750 ; N bracerighbigg ; B 131 -2359 618 40 ;  
C 28 ; WX 750 ; N angbracketleftbigg ; B 125 -2359 652 40 ;  
C 29 ; WX 750 ; N angbracketrighbigg ; B 97 -2359 624 40 ;  
C 30 ; WX 1044.44 ; N slashbigg ; B 56 -2359 987 40 ;  
C 31 ; WX 1044.44 ; N backslashbigg ; B 56 -2359 987 40 ;  
C 32 ; WX 791.667 ; N parenleftBigg ; B 236 -2959 757 40 ;  
C 33 ; WX 791.667 ; N parenrightBigg ; B 34 -2959 555 40 ;  
C 34 ; WX 583.333 ; N bracketleftBigg ; B 275 -2959 571 40 ;  
C 35 ; WX 583.333 ; N bracketrightBigg ; B 11 -2959 307 40 ;  
C 36 ; WX 638.889 ; N floorleftBigg ; B 275 -2959 627 40 ;  
C 37 ; WX 638.889 ; N floorrighBigg ; B 11 -2959 363 40 ;  
C 38 ; WX 638.889 ; N ceilingleftBigg ; B 275 -2959 627 40 ;  
C 39 ; WX 638.889 ; N ceilingrighBigg ; B 11 -2959 363 40 ;  
C 40 ; WX 805.556 ; N braceleftBigg ; B 144 -2959 661 40 ;  
C 41 ; WX 805.556 ; N bracerighBigg ; B 144 -2959 661 40 ;  
C 42 ; WX 805.556 ; N angbracketleftBigg ; B 139 -2960 697 40 ;  
C 43 ; WX 805.556 ; N angbracketrighBigg ; B 108 -2960 666 40 ;  
C 44 ; WX 1277.78 ; N slashBigg ; B 56 -2959 1221 40 ;  
C 45 ; WX 1277.78 ; N backslashBigg ; B 56 -2959 1221 40 ;  
C 46 ; WX 811.111 ; N slashBig ; B 56 -1759 754 40 ;  
C 47 ; WX 811.111 ; N backslashBig ; B 56 -1759 754 40 ;  
C 48 ; WX 875 ; N parenleftftp ; B 291 -1770 842 39 ;  
C 49 ; WX 875 ; N parenrightftp ; B 32 -1770 583 39 ;  
C 50 ; WX 666.667 ; N bracketleftftp ; B 326 -1760 659 39 ;  
C 51 ; WX 666.667 ; N bracketrightftp ; B 7 -1760 340 39 ;  
C 52 ; WX 666.667 ; N bracketleftbt ; B 326 -1759 659 40 ;  
C 53 ; WX 666.667 ; N bracketrightbt ; B 7 -1759 340 40 ;  
C 54 ; WX 666.667 ; N bracketlefttex ; B 326 -601 395 1 ;  
C 55 ; WX 666.667 ; N bracketrighttex ; B 271 -601 340 1 ;  
C 56 ; WX 888.889 ; N braceleftftp ; B 384 -910 718 -1 ;  
C 57 ; WX 888.889 ; N bracerighftp ; B 170 -910 504 -1 ;  
C 58 ; WX 888.889 ; N braceleftbt ; B 384 -899 718 10 ;  
C 59 ; WX 888.889 ; N bracerightbt ; B 170 -899 504 10 ;  
C 60 ; WX 888.889 ; N braceleftmid ; B 170 -1810 504 10 ;  
C 61 ; WX 888.889 ; N bracerightmid ; B 384 -1810 718 10 ;  
C 62 ; WX 888.889 ; N braceex ; B 384 -310 504 10 ;

C 63 ; WX 666.667 ; N arrowvertex ; B 312 -601 355 1 ;  
C 64 ; WX 875 ; N parenleftbt ; B 291 -1759 842 50 ;  
C 65 ; WX 875 ; N parenrightbt ; B 32 -1759 583 50 ;  
C 66 ; WX 875 ; N parenlefttex ; B 291 -610 402 10 ;  
C 67 ; WX 875 ; N parenrighttex ; B 472 -610 583 10 ;  
C 68 ; WX 611.111 ; N angbracketleftBig ; B 112 -1759 522 40 ;  
C 69 ; WX 611.111 ; N angbracketrightBig ; B 88 -1759 498 40 ;  
C 70 ; WX 833.333 ; N unionsqtext ; B 56 -1000 776 0 ;  
C 71 ; WX 1111.11 ; N unionsqdisplay ; B 56 -1400 1054 0 ;  
C 72 ; WX 472.222 ; N contintegraltext ; B 56 -1111 609 0 ;  
C 73 ; WX 555.556 ; N contintegraldisplay ; B 56 -2222 943 0 ;  
C 74 ; WX 1111.11 ; N circledottext ; B 56 -1000 1054 0 ;  
C 75 ; WX 1511.11 ; N circledotdisplay ; B 56 -1400 1454 0 ;  
C 76 ; WX 1111.11 ; N circleplustext ; B 56 -1000 1054 0 ;  
C 77 ; WX 1511.11 ; N circleplusdisplay ; B 56 -1400 1454 0 ;  
C 78 ; WX 1111.11 ; N circlemultiplytext ; B 56 -1000 1054 0 ;  
C 79 ; WX 1511.11 ; N circlemultiplydisplay ; B 56 -1400 1454 0 ;  
C 80 ; WX 1055.56 ; N summationtext ; B 56 -1000 999 0 ;  
C 81 ; WX 944.444 ; N producttext ; B 56 -1000 887 0 ;  
C 82 ; WX 472.222 ; N integraltext ; B 56 -1111 609 0 ;  
C 83 ; WX 833.333 ; N uniontext ; B 56 -1000 776 0 ;  
C 84 ; WX 833.333 ; N intersectiontext ; B 56 -1000 776 0 ;  
C 85 ; WX 833.333 ; N unionmultitext ; B 56 -1000 776 0 ;  
C 86 ; WX 833.333 ; N logicalandtext ; B 56 -1000 776 0 ;  
C 87 ; WX 833.333 ; N logicalortext ; B 56 -1000 776 0 ;  
C 88 ; WX 1444.44 ; N summationdisplay ; B 56 -1400 1387 0 ;  
C 89 ; WX 1277.78 ; N productdisplay ; B 56 -1400 1221 0 ;  
C 90 ; WX 555.556 ; N integraldisplay ; B 56 -2222 943 0 ;  
C 91 ; WX 1111.11 ; N uniondisplay ; B 56 -1400 1054 0 ;  
C 92 ; WX 1111.11 ; N intersectiondisplay ; B 56 -1400 1054 0 ;  
C 93 ; WX 1111.11 ; N unionmultidisplay ; B 56 -1400 1054 0 ;  
C 94 ; WX 1111.11 ; N logicalanddisplay ; B 56 -1400 1054 0 ;  
C 95 ; WX 1111.11 ; N logicalordisplay ; B 56 -1400 1054 0 ;  
C 96 ; WX 944.444 ; N coproducttext ; B 56 -1000 887 0 ;  
C 97 ; WX 1277.78 ; N coproductdisplay ; B 56 -1400 1221 0 ;  
C 98 ; WX 555.556 ; N hatwide ; B -5 562 561 744 ;  
C 99 ; WX 1000 ; N hatwider ; B -4 575 1003 772 ;  
C 100 ; WX 1444.44 ; N hatwidest ; B -3 575 1446 772 ;  
C 101 ; WX 555.556 ; N tildewide ; B 0 608 555 722 ;  
C 102 ; WX 1000 ; N tildewider ; B 0 624 999 750 ;  
C 103 ; WX 1444.44 ; N tildewidest ; B 0 623 1443 750 ;  
C 104 ; WX 472.222 ; N bracketleftBig ; B 226 -1759 453 40 ;  
C 105 ; WX 472.222 ; N bracketrightBig ; B 18 -1759 245 40 ;  
C 106 ; WX 527.778 ; N floorleftBig ; B 226 -1759 509 40 ;  
C 107 ; WX 527.778 ; N floorrightBig ; B 18 -1759 301 40 ;  
C 108 ; WX 527.778 ; N ceilingleftBig ; B 226 -1759 509 40 ;  
C 109 ; WX 527.778 ; N ceilingrightBig ; B 18 -1759 301 40 ;  
C 110 ; WX 666.667 ; N braceleftBig ; B 119 -1759 547 40 ;

C 111 ; WX 666.667 ; N bracerightBig ; B 119 -1759 547 40 ;  
C 112 ; WX 1000 ; N radicalbig ; B 110 -1160 1020 40 ;  
C 113 ; WX 1000 ; N radicalBig ; B 110 -1760 1020 40 ;  
C 114 ; WX 1000 ; N radicalbigg ; B 111 -2360 1020 40 ;  
C 115 ; WX 1000 ; N radicalBigg ; B 111 -2960 1020 40 ;  
C 116 ; WX 1055.56 ; N radicalbt ; B 111 -1800 742 20 ;  
C 117 ; WX 1055.56 ; N radicalvertex ; B 702 -620 742 20 ;  
C 118 ; WX 1055.56 ; N radicaltp ; B 702 -580 1076 40 ;  
C 119 ; WX 777.778 ; N arrowvertexdbl ; B 257 -601 521 1 ;  
C 120 ; WX 666.667 ; N arrowtp ; B 111 -600 556 0 ;  
C 121 ; WX 666.667 ; N arrowbt ; B 111 -600 556 0 ;  
C 122 ; WX 450 ; N bracehtipdownleft ; B -24 -214 460 120 ;  
C 123 ; WX 450 ; N bracehtipdownright ; B -10 -214 474 120 ;  
C 124 ; WX 450 ; N bracehtipupleft ; B -24 0 460 334 ;  
C 125 ; WX 450 ; N bracehtipupright ; B -10 0 474 334 ;  
C 126 ; WX 777.778 ; N arrowdbltp ; B 56 -600 722 -1 ;  
C 127 ; WX 777.778 ; N arrowdblbt ; B 56 -599 722 0 ;  
C -1 ; WX 333.333 ; N space ; B 0 0 0 0 ;

EndCharMetrics

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1988, 1991 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Tue May 28 16:48:12 1991

Comment UniqueID 35031

Comment VMusage 30773 37665

FontName NewCenturySchlbk-Bold

FullName New Century Schoolbook Bold

FamilyName New Century Schoolbook

Weight Bold

ItalicAngle 0

IsFixedPitch false

FontBBox -165 -250 1000 988

UnderlinePosition -100

UnderlineThickness 50

Version 001.009

Notice Copyright (c) 1985, 1987, 1988, 1991 Adobe Systems Incorporated. All Rights Reserved.

EncodingScheme AdobeStandardEncoding

CapHeight 722

XHeight 475

Ascender 737

Descender -205

StartCharMetrics 228

C 32 ; WX 287 ; N space ; B 0 0 0 0 ;

C 33 ; WX 296 ; N exclam ; B 53 -15 243 737 ;

C 34 ; WX 333 ; N quotedbl ; B 0 378 333 737 ;

C 35 ; WX 574 ; N numbersign ; B 36 0 538 690 ;

C 36 ; WX 574 ; N dollar ; B 25 -141 549 810 ;

C 37 ; WX 833 ; N percent ; B 14 -15 819 705 ;

C 38 ; WX 852 ; N ampersand ; B 34 -15 818 737 ;  
C 39 ; WX 241 ; N quoteright ; B 22 378 220 737 ;  
C 40 ; WX 389 ; N parenleft ; B 77 -117 345 745 ;  
C 41 ; WX 389 ; N parenright ; B 44 -117 312 745 ;  
C 42 ; WX 500 ; N asterisk ; B 54 302 446 737 ;  
C 43 ; WX 606 ; N plus ; B 50 0 556 506 ;  
C 44 ; WX 278 ; N comma ; B 40 -184 238 175 ;  
C 45 ; WX 333 ; N hyphen ; B 42 174 291 302 ;  
C 46 ; WX 278 ; N period ; B 44 -15 234 175 ;  
C 47 ; WX 278 ; N slash ; B -42 -15 320 737 ;  
C 48 ; WX 574 ; N zero ; B 27 -15 547 705 ;  
C 49 ; WX 574 ; N one ; B 83 0 491 705 ;  
C 50 ; WX 574 ; N two ; B 19 0 531 705 ;  
C 51 ; WX 574 ; N three ; B 23 -15 531 705 ;  
C 52 ; WX 574 ; N four ; B 19 0 547 705 ;  
C 53 ; WX 574 ; N five ; B 32 -15 534 705 ;  
C 54 ; WX 574 ; N six ; B 27 -15 547 705 ;  
C 55 ; WX 574 ; N seven ; B 45 -15 547 705 ;  
C 56 ; WX 574 ; N eight ; B 27 -15 548 705 ;  
C 57 ; WX 574 ; N nine ; B 27 -15 547 705 ;  
C 58 ; WX 278 ; N colon ; B 44 -15 234 485 ;  
C 59 ; WX 278 ; N semicolon ; B 40 -184 238 485 ;  
C 60 ; WX 606 ; N less ; B 50 -9 556 515 ;  
C 61 ; WX 606 ; N equal ; B 50 103 556 403 ;  
C 62 ; WX 606 ; N greater ; B 50 -9 556 515 ;  
C 63 ; WX 500 ; N question ; B 23 -15 477 737 ;  
C 64 ; WX 747 ; N at ; B -2 -15 750 737 ;  
C 65 ; WX 759 ; N A ; B -19 0 778 737 ;  
C 66 ; WX 778 ; N B ; B 19 0 739 722 ;  
C 67 ; WX 778 ; N C ; B 39 -15 723 737 ;  
C 68 ; WX 833 ; N D ; B 19 0 794 722 ;  
C 69 ; WX 759 ; N E ; B 19 0 708 722 ;  
C 70 ; WX 722 ; N F ; B 19 0 697 722 ;  
C 71 ; WX 833 ; N G ; B 39 -15 818 737 ;  
C 72 ; WX 870 ; N H ; B 19 0 851 722 ;  
C 73 ; WX 444 ; N I ; B 29 0 415 722 ;  
C 74 ; WX 648 ; N J ; B 6 -15 642 722 ;  
C 75 ; WX 815 ; N K ; B 19 0 822 722 ;  
C 76 ; WX 722 ; N L ; B 19 0 703 722 ;  
C 77 ; WX 981 ; N M ; B 10 0 971 722 ;  
C 78 ; WX 833 ; N N ; B 5 -10 828 722 ;  
C 79 ; WX 833 ; N O ; B 39 -15 794 737 ;  
C 80 ; WX 759 ; N P ; B 24 0 735 722 ;  
C 81 ; WX 833 ; N Q ; B 39 -189 808 737 ;  
C 82 ; WX 815 ; N R ; B 19 -15 815 722 ;  
C 83 ; WX 667 ; N S ; B 51 -15 634 737 ;  
C 84 ; WX 722 ; N T ; B 16 0 706 722 ;  
C 85 ; WX 833 ; N U ; B 14 -15 825 722 ;

C 86 ; WX 759 ; N V ; B -19 -10 778 722 ;  
C 87 ; WX 981 ; N W ; B 7 -10 974 722 ;  
C 88 ; WX 722 ; N X ; B -12 0 734 722 ;  
C 89 ; WX 722 ; N Y ; B -12 0 734 722 ;  
C 90 ; WX 667 ; N Z ; B 28 0 639 722 ;  
C 91 ; WX 389 ; N bracketleft ; B 84 -109 339 737 ;  
C 92 ; WX 606 ; N backslash ; B 122 -15 484 737 ;  
C 93 ; WX 389 ; N bracketright ; B 50 -109 305 737 ;  
C 94 ; WX 606 ; N asciicircum ; B 66 325 540 690 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 241 ; N quoteleft ; B 22 378 220 737 ;  
C 97 ; WX 611 ; N a ; B 40 -15 601 485 ;  
C 98 ; WX 648 ; N b ; B 4 -15 616 737 ;  
C 99 ; WX 556 ; N c ; B 32 -15 524 485 ;  
C 100 ; WX 667 ; N d ; B 32 -15 644 737 ;  
C 101 ; WX 574 ; N e ; B 32 -15 542 485 ;  
C 102 ; WX 389 ; N f ; B 11 0 461 737 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 30 -205 623 535 ;  
C 104 ; WX 685 ; N h ; B 17 0 662 737 ;  
C 105 ; WX 370 ; N i ; B 26 0 338 737 ;  
C 106 ; WX 352 ; N j ; B -86 -205 271 737 ;  
C 107 ; WX 667 ; N k ; B 17 0 662 737 ;  
C 108 ; WX 352 ; N l ; B 17 0 329 737 ;  
C 109 ; WX 963 ; N m ; B 17 0 940 485 ;  
C 110 ; WX 685 ; N n ; B 17 0 662 485 ;  
C 111 ; WX 611 ; N o ; B 32 -15 579 485 ;  
C 112 ; WX 667 ; N p ; B 17 -205 629 485 ;  
C 113 ; WX 648 ; N q ; B 32 -205 638 485 ;  
C 114 ; WX 519 ; N r ; B 17 0 516 485 ;  
C 115 ; WX 500 ; N s ; B 48 -15 476 485 ;  
C 116 ; WX 426 ; N t ; B 21 -15 405 675 ;  
C 117 ; WX 685 ; N u ; B 17 -15 668 475 ;  
C 118 ; WX 611 ; N v ; B 12 -10 599 475 ;  
C 119 ; WX 889 ; N w ; B 16 -10 873 475 ;  
C 120 ; WX 611 ; N x ; B 12 0 599 475 ;  
C 121 ; WX 611 ; N y ; B 12 -205 599 475 ;  
C 122 ; WX 537 ; N z ; B 38 0 499 475 ;  
C 123 ; WX 389 ; N braceleft ; B 36 -109 313 737 ;  
C 124 ; WX 606 ; N bar ; B 249 -250 357 750 ;  
C 125 ; WX 389 ; N braceright ; B 76 -109 353 737 ;  
C 126 ; WX 606 ; N asciitilde ; B 72 160 534 346 ;  
C 161 ; WX 296 ; N exclamdown ; B 53 -205 243 547 ;  
C 162 ; WX 574 ; N cent ; B 32 -102 528 572 ;  
C 163 ; WX 574 ; N sterling ; B 16 -15 558 705 ;  
C 164 ; WX 167 ; N fraction ; B -165 -15 332 705 ;  
C 165 ; WX 574 ; N yen ; B -10 0 584 690 ;  
C 166 ; WX 574 ; N florin ; B 14 -205 548 737 ;  
C 167 ; WX 500 ; N section ; B 62 -86 438 737 ;

C 168 ; WX 574 ; N currency ; B 27 84 547 605 ;  
C 169 ; WX 241 ; N quotesingle ; B 53 378 189 737 ;  
C 170 ; WX 481 ; N quotedblleft ; B 22 378 459 737 ;  
C 171 ; WX 500 ; N guillemotleft ; B 46 79 454 397 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 62 79 271 397 ;  
C 173 ; WX 333 ; N guilsinglright ; B 62 79 271 397 ;  
C 174 ; WX 685 ; N fi ; B 11 0 666 737 ;  
C 175 ; WX 685 ; N fl ; B 11 0 666 737 ;  
C 177 ; WX 500 ; N endash ; B 0 184 500 292 ;  
C 178 ; WX 500 ; N dagger ; B 39 -101 461 737 ;  
C 179 ; WX 500 ; N daggerdbl ; B 39 -89 461 737 ;  
C 180 ; WX 278 ; N periodcentered ; B 53 200 225 372 ;  
C 182 ; WX 747 ; N paragraph ; B 96 -71 631 722 ;  
C 183 ; WX 606 ; N bullet ; B 122 180 484 542 ;  
C 184 ; WX 241 ; N quotesinglbase ; B 22 -184 220 175 ;  
C 185 ; WX 481 ; N quotedblbase ; B 22 -184 459 175 ;  
C 186 ; WX 481 ; N quotedblright ; B 22 378 459 737 ;  
C 187 ; WX 500 ; N guillemotright ; B 46 79 454 397 ;  
C 188 ; WX 1000 ; N ellipsis ; B 72 -15 928 175 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -15 993 705 ;  
C 191 ; WX 500 ; N questiondown ; B 23 -205 477 547 ;  
C 193 ; WX 333 ; N grave ; B 2 547 249 737 ;  
C 194 ; WX 333 ; N acute ; B 84 547 331 737 ;  
C 195 ; WX 333 ; N circumflex ; B -10 547 344 725 ;  
C 196 ; WX 333 ; N tilde ; B -24 563 357 705 ;  
C 197 ; WX 333 ; N macron ; B -6 582 339 664 ;  
C 198 ; WX 333 ; N breve ; B 9 547 324 714 ;  
C 199 ; WX 333 ; N dotaccent ; B 95 552 237 694 ;  
C 200 ; WX 333 ; N dieresis ; B -12 552 345 694 ;  
C 202 ; WX 333 ; N ring ; B 58 545 274 761 ;  
C 203 ; WX 333 ; N cedilla ; B 17 -224 248 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B -16 547 431 737 ;  
C 206 ; WX 333 ; N ogonek ; B 168 -163 346 3 ;  
C 207 ; WX 333 ; N caron ; B -10 547 344 725 ;  
C 208 ; WX 1000 ; N emdash ; B 0 184 1000 292 ;  
C 225 ; WX 981 ; N AE ; B -29 0 963 722 ;  
C 227 ; WX 367 ; N ordfeminine ; B 1 407 393 705 ;  
C 232 ; WX 722 ; N Lslash ; B 19 0 703 722 ;  
C 233 ; WX 833 ; N Oslash ; B 39 -53 794 775 ;  
C 234 ; WX 1000 ; N OE ; B 0 0 982 722 ;  
C 235 ; WX 367 ; N ordmasculine ; B 1 407 366 705 ;  
C 241 ; WX 870 ; N ae ; B 32 -15 838 485 ;  
C 245 ; WX 370 ; N dotlessi ; B 26 0 338 475 ;  
C 248 ; WX 352 ; N lslash ; B 17 0 329 737 ;  
C 249 ; WX 611 ; N oslash ; B 32 -103 579 573 ;  
C 250 ; WX 907 ; N oe ; B 32 -15 875 485 ;  
C 251 ; WX 611 ; N germandbls ; B -2 -15 580 737 ;  
C -1 ; WX 574 ; N ecircumflex ; B 32 -15 542 725 ;



C -1 ; WX 574 ; N edieresis ; B 32 -15 542 694 ;  
C -1 ; WX 611 ; N acute ; B 40 -15 601 737 ;  
C -1 ; WX 747 ; N registered ; B -2 -15 750 737 ;  
C -1 ; WX 370 ; N icircumflex ; B 9 0 363 725 ;  
C -1 ; WX 685 ; N udieresis ; B 17 -15 668 694 ;  
C -1 ; WX 611 ; N ograve ; B 32 -15 579 737 ;  
C -1 ; WX 685 ; N uacute ; B 17 -15 668 737 ;  
C -1 ; WX 685 ; N ucircumflex ; B 17 -15 668 725 ;  
C -1 ; WX 759 ; N Acute ; B -19 0 778 964 ;  
C -1 ; WX 370 ; N igrave ; B 21 0 338 737 ;  
C -1 ; WX 444 ; N Icircumflex ; B 29 0 415 952 ;  
C -1 ; WX 556 ; N ccedilla ; B 32 -224 524 485 ;  
C -1 ; WX 611 ; N adieresis ; B 40 -15 601 694 ;  
C -1 ; WX 759 ; N Ecircumflex ; B 19 0 708 952 ;  
C -1 ; WX 500 ; N scaron ; B 48 -15 476 725 ;  
C -1 ; WX 667 ; N thorn ; B 17 -205 629 737 ;  
C -1 ; WX 1000 ; N trademark ; B 6 317 982 722 ;  
C -1 ; WX 574 ; N egrave ; B 32 -15 542 737 ;  
C -1 ; WX 344 ; N threesuperior ; B -3 273 355 705 ;  
C -1 ; WX 537 ; N zcaron ; B 38 0 499 725 ;  
C -1 ; WX 611 ; N tilde ; B 40 -15 601 705 ;  
C -1 ; WX 611 ; N aring ; B 40 -15 601 761 ;  
C -1 ; WX 611 ; N ocircumflex ; B 32 -15 579 725 ;  
C -1 ; WX 759 ; N Edieresis ; B 19 0 708 921 ;  
C -1 ; WX 861 ; N threequarters ; B 15 -15 838 705 ;  
C -1 ; WX 611 ; N ydieresis ; B 12 -205 599 694 ;  
C -1 ; WX 611 ; N yacute ; B 12 -205 599 737 ;  
C -1 ; WX 370 ; N iacute ; B 26 0 350 737 ;  
C -1 ; WX 759 ; N Acircumflex ; B -19 0 778 952 ;  
C -1 ; WX 833 ; N Uacute ; B 14 -15 825 964 ;  
C -1 ; WX 574 ; N eacute ; B 32 -15 542 737 ;  
C -1 ; WX 833 ; N Ograve ; B 39 -15 794 964 ;  
C -1 ; WX 611 ; N agrave ; B 40 -15 601 737 ;  
C -1 ; WX 833 ; N Udieresis ; B 14 -15 825 921 ;  
C -1 ; WX 611 ; N acircumflex ; B 40 -15 601 725 ;  
C -1 ; WX 444 ; N Igrave ; B 29 0 415 964 ;  
C -1 ; WX 344 ; N twosuperior ; B -3 282 350 705 ;  
C -1 ; WX 833 ; N Ugrave ; B 14 -15 825 964 ;  
C -1 ; WX 861 ; N onequarter ; B 31 -15 838 705 ;  
C -1 ; WX 833 ; N Ucircumflex ; B 14 -15 825 952 ;  
C -1 ; WX 667 ; N Scaron ; B 51 -15 634 952 ;  
C -1 ; WX 444 ; N Idieresis ; B 29 0 415 921 ;  
C -1 ; WX 370 ; N idieresis ; B 7 0 364 694 ;  
C -1 ; WX 759 ; N Egrave ; B 19 0 708 964 ;  
C -1 ; WX 833 ; N Oacute ; B 39 -15 794 964 ;  
C -1 ; WX 606 ; N divide ; B 50 -40 556 546 ;  
C -1 ; WX 759 ; N Atilde ; B -19 0 778 932 ;  
C -1 ; WX 759 ; N Aring ; B -19 0 778 988 ;

C -1 ; WX 833 ; N Odieresis ; B 39 -15 794 921 ;  
C -1 ; WX 759 ; N Adieresis ; B -19 0 778 921 ;  
C -1 ; WX 833 ; N Ntilde ; B 5 -10 828 932 ;  
C -1 ; WX 667 ; N Zcaron ; B 28 0 639 952 ;  
C -1 ; WX 759 ; N Thorn ; B 24 0 735 722 ;  
C -1 ; WX 444 ; N Iacute ; B 29 0 415 964 ;  
C -1 ; WX 606 ; N plusminus ; B 50 0 556 506 ;  
C -1 ; WX 606 ; N multiply ; B 65 15 541 491 ;  
C -1 ; WX 759 ; N Eacute ; B 19 0 708 964 ;  
C -1 ; WX 722 ; N Ydieresis ; B -12 0 734 921 ;  
C -1 ; WX 344 ; N onesuperior ; B 31 282 309 705 ;  
C -1 ; WX 685 ; N ugrave ; B 17 -15 668 737 ;  
C -1 ; WX 606 ; N logicalnot ; B 50 103 556 403 ;  
C -1 ; WX 685 ; N ntilde ; B 17 0 662 705 ;  
C -1 ; WX 833 ; N Otilde ; B 39 -15 794 932 ;  
C -1 ; WX 611 ; N otilde ; B 32 -15 579 705 ;  
C -1 ; WX 778 ; N Ccedilla ; B 39 -224 723 737 ;  
C -1 ; WX 759 ; N Agrave ; B -19 0 778 964 ;  
C -1 ; WX 861 ; N onehalf ; B 31 -15 838 705 ;  
C -1 ; WX 833 ; N Eth ; B 19 0 794 722 ;  
C -1 ; WX 400 ; N degree ; B 57 419 343 705 ;  
C -1 ; WX 722 ; N Yacute ; B -12 0 734 964 ;  
C -1 ; WX 833 ; N Ocircumflex ; B 39 -15 794 952 ;  
C -1 ; WX 611 ; N oacute ; B 32 -15 579 737 ;  
C -1 ; WX 685 ; N mu ; B 17 -205 668 475 ;  
C -1 ; WX 606 ; N minus ; B 50 199 556 307 ;  
C -1 ; WX 611 ; N eth ; B 32 -15 579 737 ;  
C -1 ; WX 611 ; N odieresis ; B 32 -15 579 694 ;  
C -1 ; WX 747 ; N copyright ; B -2 -15 750 737 ;  
C -1 ; WX 606 ; N brokenbar ; B 249 -175 357 675 ;

EndCharMetrics

StartKernData

StartKernPairs 128

KPX A y -18

KPX A w -18

KPX A v -18

KPX A quoteright -74

KPX A quotedblright -74

KPX A Y -91

KPX A W -74

KPX A V -74

KPX A U -18

KPX A T -55

KPX C period -18

KPX C comma -18

KPX D period -25  
KPX D comma -25

KPX F r -18  
KPX F period -125  
KPX F o -55  
KPX F i -18  
KPX F e -55  
KPX F comma -125  
KPX F a -74

KPX J u -18  
KPX J period -55  
KPX J o -18  
KPX J e -18  
KPX J comma -55  
KPX J a -18  
KPX J A -18

KPX K y -25  
KPX K u -18

KPX L y -25  
KPX L quoteright -100  
KPX L quotedblright -100  
KPX L Y -74  
KPX L W -74  
KPX L V -100  
KPX L T -100

KPX N period -18  
KPX N comma -18

KPX O period -25  
KPX O comma -25  
KPX O T 10

KPX P period -150  
KPX P o -55  
KPX P e -55  
KPX P comma -150  
KPX P a -55  
KPX P A -74

KPX S period -18  
KPX S comma -18

KPX T u -18

KPX T r -18  
KPX T period -100  
KPX T o -74  
KPX T i -18  
KPX T hyphen -125  
KPX T e -74  
KPX T comma -100  
KPX T a -74  
KPX T O 10  
KPX T A -55

KPX U period -25  
KPX U comma -25  
KPX U A -18

KPX V u -55  
KPX V semicolon -37  
KPX V period -125  
KPX V o -74  
KPX V i -18  
KPX V hyphen -100  
KPX V e -74  
KPX V comma -125  
KPX V colon -37  
KPX V a -74  
KPX V A -74

KPX W y -25  
KPX W u -37  
KPX W semicolon -55  
KPX W period -100  
KPX W o -74  
KPX W i -18  
KPX W hyphen -100  
KPX W e -74  
KPX W comma -100  
KPX W colon -55  
KPX W a -74  
KPX W A -74

KPX Y u -55  
KPX Y semicolon -25  
KPX Y period -100  
KPX Y o -100  
KPX Y i -18  
KPX Y hyphen -125  
KPX Y e -100  
KPX Y comma -100

KPX Y colon -25

KPX Y a -100

KPX Y A -91

KPX colon space -18

KPX comma space -18

KPX comma quoteright -18

KPX comma quotedblright -18

KPX f quoteright 75

KPX f quotedblright 75

KPX period space -18

KPX period quoteright -18

KPX period quotedblright -18

KPX quotedblleft A -74

KPX quotedblright space -18

KPX quoteleft A -74

KPX quoteright s -25

KPX quoteright d -25

KPX r period -74

KPX r comma -74

KPX semicolon space -18

KPX space quoteleft -18

KPX space quotedblleft -18

KPX space Y -18

KPX space W -18

KPX space V -18

KPX space T -18

KPX space A -18

KPX v period -100

KPX v comma -100

KPX w period -100

KPX w comma -100

KPX y period -100

KPX y comma -100

EndKernPairs

EndKernData  
 StartComposites 56  
 CC Acute 2 ; PCC A 0 0 ; PCC acute 213 227 ;  
 CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 213 227 ;  
 CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 213 227 ;  
 CC Agrave 2 ; PCC A 0 0 ; PCC grave 213 227 ;  
 CC Aring 2 ; PCC A 0 0 ; PCC ring 213 227 ;  
 CC Atilde 2 ; PCC A 0 0 ; PCC tilde 213 227 ;  
 CC Eacute 2 ; PCC E 0 0 ; PCC acute 213 227 ;  
 CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 213 227 ;  
 CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 213 227 ;  
 CC Egrave 2 ; PCC E 0 0 ; PCC grave 213 227 ;  
 CC Iacute 2 ; PCC I 0 0 ; PCC acute 56 227 ;  
 CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 56 227 ;  
 CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 56 227 ;  
 CC Igrave 2 ; PCC I 0 0 ; PCC grave 56 227 ;  
 CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 250 227 ;  
 CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 227 ;  
 CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 227 ;  
 CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 227 ;  
 CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 227 ;  
 CC Otilde 2 ; PCC O 0 0 ; PCC tilde 250 227 ;  
 CC Scaron 2 ; PCC S 0 0 ; PCC caron 167 227 ;  
 CC Uacute 2 ; PCC U 0 0 ; PCC acute 250 227 ;  
 CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 250 227 ;  
 CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 250 227 ;  
 CC Ugrave 2 ; PCC U 0 0 ; PCC grave 250 227 ;  
 CC Yacute 2 ; PCC Y 0 0 ; PCC acute 195 227 ;  
 CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 195 227 ;  
 CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 227 ;  
 CC aacute 2 ; PCC a 0 0 ; PCC acute 139 0 ;  
 CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 139 0 ;  
 CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 139 0 ;  
 CC agrave 2 ; PCC a 0 0 ; PCC grave 139 0 ;  
 CC aring 2 ; PCC a 0 0 ; PCC ring 139 0 ;  
 CC atilde 2 ; PCC a 0 0 ; PCC tilde 139 0 ;  
 CC eacute 2 ; PCC e 0 0 ; PCC acute 121 0 ;  
 CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 121 0 ;  
 CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 121 0 ;  
 CC egrave 2 ; PCC e 0 0 ; PCC grave 121 0 ;  
 CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 19 0 ;  
 CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex 19 0 ;  
 CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis 19 0 ;  
 CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 19 0 ;  
 CC ntilde 2 ; PCC n 0 0 ; PCC tilde 176 0 ;  
 CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;  
 CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;  
 CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;

CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 139 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 84 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 176 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 176 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 176 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 176 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 139 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 139 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 102 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Fri Jan 17 15:47:44 1992  
Comment UniqueID 37716  
Comment VMusage 34427 41319  
FontName Utopia-BoldItalic  
FullName Utopia Bold Italic  
FamilyName Utopia  
Weight Bold  
ItalicAngle -13  
IsFixedPitch false  
FontBBox -176 -250 1262 916  
UnderlinePosition -100  
UnderlineThickness 50  
Version 001.002  
Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.Utopia is a registered  
trademark of Adobe Systems Incorporated.  
EncodingScheme AdobeStandardEncoding  
CapHeight 692  
XHeight 502  
Ascender 742  
Descender -242  
StartCharMetrics 228  
C 32 ; WX 210 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 285 ; N exclam ; B 35 -12 336 707 ;  
C 34 ; WX 455 ; N quotedbl ; B 142 407 496 707 ;  
C 35 ; WX 560 ; N numbersign ; B 37 0 606 668 ;  
C 36 ; WX 560 ; N dollar ; B 32 -104 588 748 ;  
C 37 ; WX 896 ; N percent ; B 106 -31 861 702 ;  
C 38 ; WX 752 ; N ampersand ; B 62 -12 736 680 ;  
C 39 ; WX 246 ; N quoteright ; B 95 387 294 707 ;  
C 40 ; WX 350 ; N parenleft ; B 87 -135 438 699 ;  
C 41 ; WX 350 ; N parenright ; B -32 -135 319 699 ;  
C 42 ; WX 500 ; N asterisk ; B 121 315 528 707 ;  
C 43 ; WX 600 ; N plus ; B 83 0 567 490 ;  
C 44 ; WX 280 ; N comma ; B -9 -167 207 180 ;

C 45 ; WX 392 ; N hyphen ; B 71 203 354 298 ;  
C 46 ; WX 280 ; N period ; B 32 -12 212 166 ;  
C 47 ; WX 260 ; N slash ; B -16 -15 370 707 ;  
C 48 ; WX 560 ; N zero ; B 57 -12 583 680 ;  
C 49 ; WX 560 ; N one ; B 72 0 470 680 ;  
C 50 ; WX 560 ; N two ; B 4 0 578 680 ;  
C 51 ; WX 560 ; N three ; B 21 -12 567 680 ;  
C 52 ; WX 560 ; N four ; B 28 0 557 668 ;  
C 53 ; WX 560 ; N five ; B 23 -12 593 668 ;  
C 54 ; WX 560 ; N six ; B 56 -12 586 680 ;  
C 55 ; WX 560 ; N seven ; B 112 -12 632 668 ;  
C 56 ; WX 560 ; N eight ; B 37 -12 584 680 ;  
C 57 ; WX 560 ; N nine ; B 48 -12 570 680 ;  
C 58 ; WX 280 ; N colon ; B 32 -12 280 490 ;  
C 59 ; WX 280 ; N semicolon ; B -9 -167 280 490 ;  
C 60 ; WX 600 ; N less ; B 66 5 544 495 ;  
C 61 ; WX 600 ; N equal ; B 83 103 567 397 ;  
C 62 ; WX 600 ; N greater ; B 86 5 564 495 ;  
C 63 ; WX 454 ; N question ; B 115 -12 515 707 ;  
C 64 ; WX 828 ; N at ; B 90 -15 842 707 ;  
C 65 ; WX 634 ; N A ; B -59 0 639 692 ;  
C 66 ; WX 680 ; N B ; B 5 0 689 692 ;  
C 67 ; WX 672 ; N C ; B 76 -15 742 707 ;  
C 68 ; WX 774 ; N D ; B 5 0 784 692 ;  
C 69 ; WX 622 ; N E ; B 5 0 687 692 ;  
C 70 ; WX 585 ; N F ; B 5 0 683 692 ;  
C 71 ; WX 726 ; N G ; B 76 -15 756 707 ;  
C 72 ; WX 800 ; N H ; B 5 0 880 692 ;  
C 73 ; WX 386 ; N I ; B 5 0 466 692 ;  
C 74 ; WX 388 ; N J ; B -50 -114 477 692 ;  
C 75 ; WX 688 ; N K ; B 5 -6 823 692 ;  
C 76 ; WX 586 ; N L ; B 5 0 591 692 ;  
C 77 ; WX 921 ; N M ; B 0 0 998 692 ;  
C 78 ; WX 741 ; N N ; B -5 0 838 692 ;  
C 79 ; WX 761 ; N O ; B 78 -15 768 707 ;  
C 80 ; WX 660 ; N P ; B 5 0 694 692 ;  
C 81 ; WX 761 ; N Q ; B 78 -193 768 707 ;  
C 82 ; WX 681 ; N R ; B 5 0 696 692 ;  
C 83 ; WX 551 ; N S ; B 31 -15 570 707 ;  
C 84 ; WX 616 ; N T ; B 91 0 722 692 ;  
C 85 ; WX 776 ; N U ; B 115 -15 867 692 ;  
C 86 ; WX 630 ; N V ; B 92 0 783 692 ;  
C 87 ; WX 920 ; N W ; B 80 0 1062 692 ;  
C 88 ; WX 630 ; N X ; B -56 0 744 692 ;  
C 89 ; WX 622 ; N Y ; B 92 0 765 692 ;  
C 90 ; WX 618 ; N Z ; B -30 0 714 692 ;  
C 91 ; WX 350 ; N bracketleft ; B 56 -128 428 692 ;  
C 92 ; WX 460 ; N backslash ; B 114 -15 425 707 ;



C 93 ; WX 350 ; N bracketright ; B -22 -128 350 692 ;  
C 94 ; WX 600 ; N asciicircum ; B 79 215 567 668 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 246 ; N quoteleft ; B 114 399 313 719 ;  
C 97 ; WX 596 ; N a ; B 26 -12 612 502 ;  
C 98 ; WX 586 ; N b ; B 34 -12 592 742 ;  
C 99 ; WX 456 ; N c ; B 38 -12 498 502 ;  
C 100 ; WX 609 ; N d ; B 29 -12 651 742 ;  
C 101 ; WX 476 ; N e ; B 38 -12 497 502 ;  
C 102 ; WX 348 ; N f ; B -129 -242 553 742 ; L i f i ; L l f l ;  
C 103 ; WX 522 ; N g ; B -14 -242 609 512 ;  
C 104 ; WX 629 ; N h ; B 44 -12 631 742 ;  
C 105 ; WX 339 ; N i ; B 66 -12 357 720 ;  
C 106 ; WX 333 ; N j ; B -120 -242 364 720 ;  
C 107 ; WX 570 ; N k ; B 39 -12 604 742 ;  
C 108 ; WX 327 ; N l ; B 62 -12 360 742 ;  
C 109 ; WX 914 ; N m ; B 46 -12 917 502 ;  
C 110 ; WX 635 ; N n ; B 45 -12 639 502 ;  
C 111 ; WX 562 ; N o ; B 42 -12 556 502 ;  
C 112 ; WX 606 ; N p ; B 0 -242 613 502 ;  
C 113 ; WX 584 ; N q ; B 29 -242 604 513 ;  
C 114 ; WX 440 ; N r ; B 51 -12 497 502 ;  
C 115 ; WX 417 ; N s ; B 10 -12 432 502 ;  
C 116 ; WX 359 ; N t ; B 68 -12 428 641 ;  
C 117 ; WX 634 ; N u ; B 71 -12 643 502 ;  
C 118 ; WX 518 ; N v ; B 68 -12 547 502 ;  
C 119 ; WX 795 ; N w ; B 70 -12 826 502 ;  
C 120 ; WX 516 ; N x ; B -26 -12 546 502 ;  
C 121 ; WX 489 ; N y ; B -49 -242 532 502 ;  
C 122 ; WX 466 ; N z ; B -17 -12 506 490 ;  
C 123 ; WX 340 ; N braceleft ; B 90 -128 439 692 ;  
C 124 ; WX 265 ; N bar ; B 117 -250 221 750 ;  
C 125 ; WX 340 ; N braceright ; B -42 -128 307 692 ;  
C 126 ; WX 600 ; N asciitilde ; B 70 157 571 338 ;  
C 161 ; WX 285 ; N exclamdown ; B -13 -217 288 502 ;  
C 162 ; WX 560 ; N cent ; B 80 -21 611 668 ;  
C 163 ; WX 560 ; N sterling ; B -4 0 583 679 ;  
C 164 ; WX 100 ; N fraction ; B -176 -27 370 695 ;  
C 165 ; WX 560 ; N yen ; B 65 0 676 668 ;  
C 166 ; WX 560 ; N florin ; B -16 -135 635 691 ;  
C 167 ; WX 568 ; N section ; B 64 -115 559 707 ;  
C 168 ; WX 560 ; N currency ; B 60 73 578 596 ;  
C 169 ; WX 246 ; N quotesingle ; B 134 376 285 707 ;  
C 170 ; WX 455 ; N quotedblleft ; B 114 399 522 719 ;  
C 171 ; WX 560 ; N guillemotleft ; B 90 37 533 464 ;  
C 172 ; WX 360 ; N guilsinglleft ; B 90 37 333 464 ;  
C 173 ; WX 360 ; N guilsinglright ; B 58 37 301 464 ;  
C 174 ; WX 651 ; N fi ; B -129 -242 655 742 ;

C 175 ; WX 652 ; N fl ; B -129 -242 685 742 ;  
C 177 ; WX 500 ; N endash ; B 12 209 531 292 ;  
C 178 ; WX 514 ; N dagger ; B 101 -125 545 707 ;  
C 179 ; WX 490 ; N daggerdbl ; B 32 -119 528 707 ;  
C 180 ; WX 280 ; N periodcentered ; B 67 161 247 339 ;  
C 182 ; WX 580 ; N paragraph ; B 110 -101 653 692 ;  
C 183 ; WX 465 ; N bullet ; B 99 174 454 529 ;  
C 184 ; WX 246 ; N quotesinglbase ; B -17 -153 182 167 ;  
C 185 ; WX 455 ; N quotedblbase ; B -17 -153 391 167 ;  
C 186 ; WX 455 ; N quotedblright ; B 95 387 503 707 ;  
C 187 ; WX 560 ; N guillemotright ; B 58 37 502 464 ;  
C 188 ; WX 1000 ; N ellipsis ; B 85 -12 931 166 ;  
C 189 ; WX 1297 ; N perthousand ; B 106 -31 1262 702 ;  
C 191 ; WX 454 ; N questiondown ; B -10 -217 391 502 ;  
C 193 ; WX 400 ; N grave ; B 109 511 381 740 ;  
C 194 ; WX 400 ; N acute ; B 186 511 458 740 ;  
C 195 ; WX 400 ; N circumflex ; B 93 520 471 747 ;  
C 196 ; WX 400 ; N tilde ; B 94 549 502 697 ;  
C 197 ; WX 400 ; N macron ; B 133 592 459 664 ;  
C 198 ; WX 400 ; N breve ; B 146 556 469 714 ;  
C 199 ; WX 402 ; N dotaccent ; B 220 561 378 710 ;  
C 200 ; WX 400 ; N dieresis ; B 106 561 504 710 ;  
C 202 ; WX 400 ; N ring ; B 166 529 423 762 ;  
C 203 ; WX 400 ; N cedilla ; B 85 -246 292 0 ;  
C 205 ; WX 400 ; N hungarumlaut ; B 158 546 482 750 ;  
C 206 ; WX 350 ; N ogonek ; B 38 -246 253 0 ;  
C 207 ; WX 400 ; N caron ; B 130 520 508 747 ;  
C 208 ; WX 1000 ; N emdash ; B 12 209 1031 292 ;  
C 225 ; WX 890 ; N AE ; B -107 0 958 692 ;  
C 227 ; WX 444 ; N ordfeminine ; B 62 265 482 590 ;  
C 232 ; WX 592 ; N Lslash ; B 11 0 597 692 ;  
C 233 ; WX 761 ; N Oslash ; B 77 -51 769 734 ;  
C 234 ; WX 1016 ; N OE ; B 76 0 1084 692 ;  
C 235 ; WX 412 ; N ordmasculine ; B 86 265 446 590 ;  
C 241 ; WX 789 ; N ae ; B 26 -12 810 509 ;  
C 245 ; WX 339 ; N dotlessi ; B 66 -12 343 502 ;  
C 248 ; WX 339 ; N lslash ; B 18 -12 420 742 ;  
C 249 ; WX 562 ; N oslash ; B 42 -69 556 549 ;  
C 250 ; WX 811 ; N oe ; B 42 -12 832 502 ;  
C 251 ; WX 628 ; N germandbls ; B -129 -242 692 742 ;  
C -1 ; WX 402 ; N onesuperior ; B 84 272 361 680 ;  
C -1 ; WX 600 ; N minus ; B 83 210 567 290 ;  
C -1 ; WX 375 ; N degree ; B 93 360 425 680 ;  
C -1 ; WX 562 ; N oacute ; B 42 -12 572 755 ;  
C -1 ; WX 761 ; N Odieresis ; B 78 -15 768 881 ;  
C -1 ; WX 562 ; N odieresis ; B 42 -12 585 710 ;  
C -1 ; WX 622 ; N Eacute ; B 5 0 687 904 ;  
C -1 ; WX 634 ; N ucircumflex ; B 71 -12 643 747 ;

C -1 ; WX 940 ; N onequarter ; B 104 -27 849 695 ;  
C -1 ; WX 600 ; N logicalnot ; B 83 95 567 397 ;  
C -1 ; WX 622 ; N Ecircumflex ; B 5 0 687 905 ;  
C -1 ; WX 940 ; N onehalf ; B 90 -27 898 695 ;  
C -1 ; WX 761 ; N Otilde ; B 78 -15 768 876 ;  
C -1 ; WX 634 ; N uacute ; B 71 -12 643 740 ;  
C -1 ; WX 476 ; N eacute ; B 38 -12 545 755 ;  
C -1 ; WX 339 ; N iacute ; B 66 -12 438 740 ;  
C -1 ; WX 622 ; N Egrave ; B 5 0 687 904 ;  
C -1 ; WX 339 ; N icircumflex ; B 38 -12 416 747 ;  
C -1 ; WX 634 ; N mu ; B -3 -230 643 502 ;  
C -1 ; WX 265 ; N brokenbar ; B 117 -175 221 675 ;  
C -1 ; WX 600 ; N thorn ; B -6 -242 607 700 ;  
C -1 ; WX 634 ; N Aring ; B -59 0 639 879 ;  
C -1 ; WX 489 ; N yacute ; B -49 -242 553 740 ;  
C -1 ; WX 622 ; N Ydieresis ; B 92 0 765 881 ;  
C -1 ; WX 1100 ; N trademark ; B 103 277 1093 692 ;  
C -1 ; WX 824 ; N registered ; B 91 -15 819 707 ;  
C -1 ; WX 562 ; N ocircumflex ; B 42 -12 556 747 ;  
C -1 ; WX 634 ; N Agrave ; B -59 0 639 904 ;  
C -1 ; WX 551 ; N Scaron ; B 31 -15 612 916 ;  
C -1 ; WX 776 ; N Ugrave ; B 115 -15 867 904 ;  
C -1 ; WX 622 ; N Edieresis ; B 5 0 687 881 ;  
C -1 ; WX 776 ; N Uacute ; B 115 -15 867 904 ;  
C -1 ; WX 562 ; N otilde ; B 42 -12 583 697 ;  
C -1 ; WX 635 ; N ntilde ; B 45 -12 639 697 ;  
C -1 ; WX 489 ; N ydieresis ; B -49 -242 532 710 ;  
C -1 ; WX 634 ; N Aacute ; B -59 0 678 904 ;  
C -1 ; WX 562 ; N eth ; B 42 -12 558 742 ;  
C -1 ; WX 596 ; N acircumflex ; B 26 -12 612 747 ;  
C -1 ; WX 596 ; N aring ; B 26 -12 612 762 ;  
C -1 ; WX 761 ; N Ograve ; B 78 -15 768 904 ;  
C -1 ; WX 456 ; N ccedilla ; B 38 -246 498 502 ;  
C -1 ; WX 600 ; N multiply ; B 110 22 560 478 ;  
C -1 ; WX 600 ; N divide ; B 63 7 547 493 ;  
C -1 ; WX 402 ; N twosuperior ; B 29 272 423 680 ;  
C -1 ; WX 741 ; N Ntilde ; B -5 0 838 876 ;  
C -1 ; WX 634 ; N ugrave ; B 71 -12 643 740 ;  
C -1 ; WX 776 ; N Ucircumflex ; B 115 -15 867 905 ;  
C -1 ; WX 634 ; N Atilde ; B -59 0 662 876 ;  
C -1 ; WX 466 ; N zcaron ; B -17 -12 526 747 ;  
C -1 ; WX 339 ; N idieresis ; B 46 -12 444 710 ;  
C -1 ; WX 634 ; N Acircumflex ; B -59 0 639 905 ;  
C -1 ; WX 386 ; N Icircumflex ; B 5 0 506 905 ;  
C -1 ; WX 622 ; N Yacute ; B 92 0 765 904 ;  
C -1 ; WX 761 ; N Oacute ; B 78 -15 768 904 ;  
C -1 ; WX 634 ; N Adieresis ; B -59 0 652 881 ;  
C -1 ; WX 618 ; N Zcaron ; B -30 0 714 916 ;

C -1 ; WX 596 ; N agrave ; B 26 -12 612 755 ;  
C -1 ; WX 402 ; N threesuperior ; B 59 265 421 680 ;  
C -1 ; WX 562 ; N ograve ; B 42 -12 556 755 ;  
C -1 ; WX 940 ; N threequarters ; B 95 -27 876 695 ;  
C -1 ; WX 780 ; N Eth ; B 11 0 790 692 ;  
C -1 ; WX 600 ; N plusminus ; B 83 0 567 549 ;  
C -1 ; WX 634 ; N udieresis ; B 71 -12 643 710 ;  
C -1 ; WX 476 ; N edieresis ; B 38 -12 542 710 ;  
C -1 ; WX 596 ; N aacute ; B 26 -12 621 755 ;  
C -1 ; WX 339 ; N igrave ; B 39 -12 343 740 ;  
C -1 ; WX 386 ; N Idieresis ; B 5 0 533 881 ;  
C -1 ; WX 596 ; N adieresis ; B 26 -12 612 710 ;  
C -1 ; WX 386 ; N Iacute ; B 5 0 549 904 ;  
C -1 ; WX 824 ; N copyright ; B 91 -15 819 707 ;  
C -1 ; WX 386 ; N Igrave ; B 5 0 466 904 ;  
C -1 ; WX 672 ; N Ccedilla ; B 76 -246 742 707 ;  
C -1 ; WX 417 ; N scaron ; B 10 -12 522 747 ;  
C -1 ; WX 476 ; N egrave ; B 38 -12 497 755 ;  
C -1 ; WX 761 ; N Ocircumflex ; B 78 -15 768 905 ;  
C -1 ; WX 629 ; N Thorn ; B 5 0 660 692 ;  
C -1 ; WX 596 ; N atilde ; B 26 -12 612 697 ;  
C -1 ; WX 776 ; N Udieresis ; B 115 -15 867 881 ;  
C -1 ; WX 476 ; N ecircumflex ; B 38 -12 524 747 ;

EndCharMetrics

StartKernData

StartKernPairs 697

KPX A z 18

KPX A y -40

KPX A x 16

KPX A w -30

KPX A v -30

KPX A u -18

KPX A t -6

KPX A s 6

KPX A r -6

KPX A quoteright -92

KPX A quotedblright -92

KPX A p -6

KPX A o -18

KPX A n -12

KPX A m -12

KPX A l -18

KPX A h -6

KPX A d 4

KPX A c -6

KPX A b -6

KPX A a 10

KPX A Y -56  
KPX A X -8  
KPX A W -46  
KPX A V -75  
KPX A U -50  
KPX A T -60  
KPX A Q -30  
KPX A O -30  
KPX A G -30  
KPX A C -30

KPX B y -6  
KPX B u -12  
KPX B r -6  
KPX B quoteright -20  
KPX B quotedblright -32  
KPX B o 6  
KPX B l -20  
KPX B k -10  
KPX B i -12  
KPX B h -15  
KPX B e 4  
KPX B a 10  
KPX B W -30  
KPX B V -45  
KPX B U -30  
KPX B T -20

KPX C z -6  
KPX C y -18  
KPX C u -12  
KPX C r -12  
KPX C quoteright 12  
KPX C quotedblright 20  
KPX C i -6  
KPX C e -6  
KPX C a -6  
KPX C Q -12  
KPX C O -12  
KPX C G -12  
KPX C C -12

KPX D y 18  
KPX D quoteright -20  
KPX D quotedblright -20  
KPX D period -20  
KPX D o 6  
KPX D h -15

KPX D e 6  
KPX D comma -20  
KPX D a 6  
KPX D Y -80  
KPX D W -40  
KPX D V -65

KPX E z -6  
KPX E y -24  
KPX E x 15  
KPX E w -30  
KPX E v -18  
KPX E u -24  
KPX E t -18  
KPX E s -6  
KPX E r -6  
KPX E quoteright 10  
KPX E q 10  
KPX E period 15  
KPX E p -12  
KPX E n -12  
KPX E m -12  
KPX E l -6  
KPX E j -6  
KPX E i -12  
KPX E g -12  
KPX E d 10  
KPX E comma 15  
KPX E a 10

KPX F y -12  
KPX F u -24  
KPX F r -12  
KPX F quoteright 40  
KPX F quotedblright 35  
KPX F period -120  
KPX F o -24  
KPX F i -6  
KPX F e -24  
KPX F comma -110  
KPX F a -30  
KPX F A -45

KPX G y -25  
KPX G u -22  
KPX G r -22  
KPX G quoteright -30  
KPX G quotedblright -30

KPX G n -22  
KPX G l -24  
KPX G i -12  
KPX G h -18  
KPX G e 5

KPX H y -18  
KPX H u -30  
KPX H o -25  
KPX H i -25  
KPX H e -25  
KPX H a -25

KPX I z -20  
KPX I y -6  
KPX I x -6  
KPX I w -30  
KPX I v -30  
KPX I u -30  
KPX I t -18  
KPX I s -18  
KPX I r -12  
KPX I p -18  
KPX I o -25  
KPX I n -18  
KPX I m -18  
KPX I l -6  
KPX I k -6  
KPX I j -20  
KPX I i -10  
KPX I g -24  
KPX I f -6  
KPX I e -25  
KPX I d -15  
KPX I c -25  
KPX I b -6  
KPX I a -15

KPX J y -12  
KPX J u -32  
KPX J quoteright 6  
KPX J quotedblright 6  
KPX J o -36  
KPX J i -30  
KPX J e -30  
KPX J braceright 15  
KPX J a -36

KPX K y -70  
KPX K w -36  
KPX K v -30  
KPX K u -30  
KPX K r -24  
KPX K quoteright 36  
KPX K quotedblright 36  
KPX K o -30  
KPX K n -24  
KPX K l 10  
KPX K i -12  
KPX K h 15  
KPX K e -30  
KPX K a -12  
KPX K Q -50  
KPX K O -50  
KPX K G -50  
KPX K C -50  
KPX K A 15

KPX L y -70  
KPX L w -30  
KPX L u -18  
KPX L quoteright -110  
KPX L quotedblright -110  
KPX L l -16  
KPX L j -18  
KPX L i -18  
KPX L Y -80  
KPX L W -78  
KPX L V -110  
KPX L U -42  
KPX L T -100  
KPX L Q -48  
KPX L O -48  
KPX L G -48  
KPX L C -48  
KPX L A 40

KPX M y -18  
KPX M u -24  
KPX M quoteright 6  
KPX M quotedblright 6  
KPX M o -25  
KPX M n -20  
KPX M j -35  
KPX M i -20  
KPX M e -25



KPX M d -20  
KPX M c -25  
KPX M a -20

KPX N y -18  
KPX N u -24  
KPX N o -18  
KPX N i -12  
KPX N e -16  
KPX N a -22

KPX O z -6  
KPX O y 12  
KPX O u -6  
KPX O t -6  
KPX O s -6  
KPX O r -6  
KPX O quoteright -20  
KPX O quotedblright -20  
KPX O q 6  
KPX O period -10  
KPX O p -6  
KPX O n -6  
KPX O m -6  
KPX O l -15  
KPX O k -10  
KPX O j -6  
KPX O h -10  
KPX O g -6  
KPX O e 6  
KPX O d 6  
KPX O comma -10  
KPX O a 6  
KPX O Y -70  
KPX O X -30  
KPX O W -35  
KPX O V -50  
KPX O T -42  
KPX O A -8

KPX P y 6  
KPX P u -18  
KPX P t -6  
KPX P s -24  
KPX P r -6  
KPX P quoteright -12  
KPX P period -170  
KPX P o -24

KPX P n -12  
KPX P l -20  
KPX P h -20  
KPX P e -24  
KPX P comma -170  
KPX P a -40  
KPX P I -45  
KPX P H -45  
KPX P E -45  
KPX P A -70

KPX Q u -6  
KPX Q quoteright -20  
KPX Q quotedblright -38  
KPX Q a -6  
KPX Q Y -70  
KPX Q X -12  
KPX Q W -35  
KPX Q V -50  
KPX Q U -30  
KPX Q T -36  
KPX Q A -18

KPX R y -6  
KPX R u -12  
KPX R quoteright -22  
KPX R quotedblright -22  
KPX R o -20  
KPX R e -12  
KPX R Y -45  
KPX R X 15  
KPX R W -25  
KPX R V -35  
KPX R U -40  
KPX R T -18  
KPX R Q -8  
KPX R O -8  
KPX R G -8  
KPX R C -8  
KPX R A 15

KPX S y -30  
KPX S w -30  
KPX S v -20  
KPX S u -18  
KPX S t -18  
KPX S r -20  
KPX S quoteright -38

KPX S quotedblright -50  
KPX S p -18  
KPX S n -24  
KPX S m -24  
KPX S l -20  
KPX S k -18  
KPX S j -25  
KPX S i -20  
KPX S h -12  
KPX S e -6

KPX T z -48  
KPX T y -52  
KPX T w -54  
KPX T u -54  
KPX T semicolon -6  
KPX T s -60  
KPX T r -54  
KPX T quoteright 36  
KPX T quotedblright 36  
KPX T period -70  
KPX T parenright 25  
KPX T o -78  
KPX T m -54  
KPX T i -22  
KPX T hyphen -100  
KPX T h 6  
KPX T endash -40  
KPX T emdash -40  
KPX T e -78  
KPX T comma -90  
KPX T bracketright 20  
KPX T braceright 30  
KPX T a -78  
KPX T Y 12  
KPX T X 18  
KPX T W 30  
KPX T V 20  
KPX T T 40  
KPX T Q -6  
KPX T O -6  
KPX T G -6  
KPX T C -6  
KPX T A -40

KPX U z -18  
KPX U x -30  
KPX U v -20

KPX U t -24  
KPX U s -40  
KPX U r -30  
KPX U p -30  
KPX U n -30  
KPX U m -30  
KPX U l -12  
KPX U k -12  
KPX U i -24  
KPX U h -6  
KPX U g -30  
KPX U f -10  
KPX U d -30  
KPX U c -30  
KPX U b -6  
KPX U a -30  
KPX U A -40

KPX V y -34  
KPX V u -42  
KPX V semicolon -45  
KPX V r -55  
KPX V quoteright 46  
KPX V quotedblright 60  
KPX V period -110  
KPX V parenright 64  
KPX V o -55  
KPX V i 15  
KPX V hyphen -60  
KPX V endash -20  
KPX V emdash -20  
KPX V e -55  
KPX V comma -110  
KPX V colon -18  
KPX V bracketright 64  
KPX V braceright 64  
KPX V a -80  
KPX V T 12  
KPX V A -70

KPX W y -36  
KPX W u -30  
KPX W t -10  
KPX W semicolon -12  
KPX W r -30  
KPX W quoteright 42  
KPX W quotedblright 55  
KPX W period -80

KPX W parenright 55  
KPX W o -55  
KPX W m -30  
KPX W i 5  
KPX W hyphen -40  
KPX W h 16  
KPX W e -55  
KPX W d -60  
KPX W comma -80  
KPX W colon -12  
KPX W bracketright 64  
KPX W braceright 64  
KPX W a -60  
KPX W T 30  
KPX W Q -5  
KPX W O -5  
KPX W G -5  
KPX W C -5  
KPX W A -45

KPX X y -40  
KPX X u -30  
KPX X r -6  
KPX X quoteright 24  
KPX X quotedblright 40  
KPX X i -6  
KPX X e -18  
KPX X a -6  
KPX X Y -6  
KPX X W -6  
KPX X Q -45  
KPX X O -45  
KPX X G -45  
KPX X C -45

KPX Y v -60  
KPX Y u -70  
KPX Y t -32  
KPX Y semicolon -20  
KPX Y quoteright 56  
KPX Y quotedblright 70  
KPX Y q -100  
KPX Y period -80  
KPX Y parenright 5  
KPX Y o -95  
KPX Y l 15  
KPX Y i 15  
KPX Y hyphen -110

KPX Y endash -40  
KPX Y emdash -40  
KPX Y e -95  
KPX Y d -85  
KPX Y comma -80  
KPX Y colon -20  
KPX Y bracketright 64  
KPX Y braceright 64  
KPX Y a -85  
KPX Y Y 12  
KPX Y X 12  
KPX Y W 12  
KPX Y V 6  
KPX Y T 30  
KPX Y Q -25  
KPX Y O -25  
KPX Y G -25  
KPX Y C -25  
KPX Y A -40

KPX Z y -36  
KPX Z w -36  
KPX Z u -12  
KPX Z quoteright 18  
KPX Z quotedblright 18  
KPX Z o -6  
KPX Z i -12  
KPX Z e -6  
KPX Z a -6  
KPX Z Q -20  
KPX Z O -20  
KPX Z G -20  
KPX Z C -20  
KPX Z A 30

KPX a quoteright -54  
KPX a quotedblright -54

KPX b y -6  
KPX b w -5  
KPX b v -5  
KPX b quoteright -30  
KPX b quotedblright -30  
KPX b period -15  
KPX b comma -15

KPX braceleft Y 64  
KPX braceleft W 64

KPX braceleft V 64

KPX braceleft T 40

KPX braceleft J 60

KPX bracketleft Y 60

KPX bracketleft W 64

KPX bracketleft V 64

KPX bracketleft T 35

KPX bracketleft J 30

KPX c quoteright 5

KPX c quotedblright 5

KPX colon space -30

KPX comma space -40

KPX comma quoteright -100

KPX comma quotedblright -100

KPX d quoteright -12

KPX d quotedblright -12

KPX d period 15

KPX d comma 15

KPX e y 6

KPX e x -10

KPX e w -10

KPX e v -10

KPX e quoteright -25

KPX e quotedblright -25

KPX f quoteright 120

KPX f quotedblright 120

KPX f period -30

KPX f parenright 100

KPX f comma -30

KPX f bracketright 110

KPX f braceright 110

KPX g y 50

KPX g quotedblright -20

KPX g p 30

KPX g f 42

KPX g comma 20

KPX h quoteright -78

KPX h quotedblright -78

KPX i quoteright -20  
KPX i quotedblright -20

KPX j quoteright -20  
KPX j quotedblright -20  
KPX j period -20  
KPX j comma -20

KPX k quoteright -38  
KPX k quotedblright -38

KPX l quoteright -12  
KPX l quotedblright -12

KPX m quoteright -78  
KPX m quotedblright -78

KPX n quoteright -88  
KPX n quotedblright -88

KPX o y -12  
KPX o x -20  
KPX o w -25  
KPX o v -25  
KPX o quoteright -50  
KPX o quotedblright -50  
KPX o period -10  
KPX o comma -10

KPX p w -6  
KPX p quoteright -30  
KPX p quotedblright -52  
KPX p period -15  
KPX p comma -15

KPX parenleft Y 64  
KPX parenleft W 64  
KPX parenleft V 64  
KPX parenleft T 30  
KPX parenleft J 50

KPX period space -40  
KPX period quoteright -100  
KPX period quotedblright -100

KPX q quoteright -40  
KPX q quotedblright -40  
KPX q period -10



KPX q comma -5

KPX quotedblleft z -30

KPX quotedblleft x -60

KPX quotedblleft w -12

KPX quotedblleft v -12

KPX quotedblleft u -12

KPX quotedblleft t 5

KPX quotedblleft s -30

KPX quotedblleft r -12

KPX quotedblleft q -50

KPX quotedblleft p -12

KPX quotedblleft o -30

KPX quotedblleft n -12

KPX quotedblleft m -12

KPX quotedblleft l 10

KPX quotedblleft k 10

KPX quotedblleft h 10

KPX quotedblleft g -30

KPX quotedblleft e -30

KPX quotedblleft d -50

KPX quotedblleft c -30

KPX quotedblleft b 24

KPX quotedblleft a -50

KPX quotedblleft Y 30

KPX quotedblleft X 45

KPX quotedblleft W 55

KPX quotedblleft V 40

KPX quotedblleft T 36

KPX quotedblleft A -100

KPX quotedblright space -50

KPX quotedblright period -200

KPX quotedblright comma -200

KPX quoteleft z -30

KPX quoteleft y 30

KPX quoteleft x -10

KPX quoteleft w -12

KPX quoteleft u -12

KPX quoteleft t -30

KPX quoteleft s -30

KPX quoteleft r -12

KPX quoteleft q -30

KPX quoteleft p -12

KPX quoteleft o -30

KPX quoteleft n -12

KPX quoteleft m -12

KPX quoteleft l 10  
KPX quoteleft k 10  
KPX quoteleft h 10  
KPX quoteleft g -30  
KPX quoteleft e -30  
KPX quoteleft d -30  
KPX quoteleft c -30  
KPX quoteleft b 24  
KPX quoteleft a -30  
KPX quoteleft Y 12  
KPX quoteleft X 46  
KPX quoteleft W 46  
KPX quoteleft V 28  
KPX quoteleft T 36  
KPX quoteleft A -100

KPX quoteright v -20  
KPX quoteright space -50  
KPX quoteright s -45  
KPX quoteright r -12  
KPX quoteright period -140  
KPX quoteright m -12  
KPX quoteright l -12  
KPX quoteright d -65  
KPX quoteright comma -140

KPX r z 20  
KPX r y 18  
KPX r x 12  
KPX r w 6  
KPX r v 6  
KPX r t 8  
KPX r semicolon 20  
KPX r quoteright -6  
KPX r quotedblright -6  
KPX r q -24  
KPX r period -100  
KPX r o -6  
KPX r l -12  
KPX r k -12  
KPX r hyphen -40  
KPX r h -10  
KPX r f 8  
KPX r endash -20  
KPX r e -26  
KPX r d -25  
KPX r comma -100  
KPX r colon 20

KPX r c -12

KPX r a -25

KPX s quoteright -25

KPX s quotedblright -30

KPX semicolon space -30

KPX space quotesinglbase -60

KPX space quoteleft -60

KPX space quotedblleft -60

KPX space quotedblbase -60

KPX space Y -70

KPX space W -50

KPX space V -70

KPX space T -50

KPX space A -50

KPX t quoteright 15

KPX t quotedblright 15

KPX t period 15

KPX t comma 15

KPX u quoteright -65

KPX u quotedblright -78

KPX u period 20

KPX u comma 20

KPX v quoteright -10

KPX v quotedblright -10

KPX v q -6

KPX v period -62

KPX v o -6

KPX v e -6

KPX v d -6

KPX v comma -62

KPX v c -6

KPX v a -6

KPX w quoteright -10

KPX w quotedblright -10

KPX w period -40

KPX w comma -50

KPX x y 12

KPX x w -6

KPX x quoteright -30

KPX x quotedblright -30

KPX x q -6  
KPX x o -6  
KPX x e -6  
KPX x d -6  
KPX x c -6

KPX y quoteright -10  
KPX y quotedblright -10  
KPX y q -10  
KPX y period -56  
KPX y d -10  
KPX y comma -56

KPX z quoteright -40  
KPX z quotedblright -40  
KPX z o -6  
KPX z e -6  
KPX z d -6  
KPX z c -6

EndKernPairs

EndKernData

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Mar 4 13:46:34 1991

Comment UniqueID 34370

Comment VMusage 24954 31846

FontName AvantGarde-Demi

FullName ITC Avant Garde Gothic Demi

FamilyName ITC Avant Garde Gothic

Weight Demi

ItalicAngle 0

IsFixedPitch false

FontBBox -123 -251 1222 1021

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990, 1991 Adobe Systems Incorporated. All Rights Reserved. ITC Avant Garde Gothic is a registered trademark of International Typeface Corporation.

EncodingScheme AdobeStandardEncoding

CapHeight 740

XHeight 555

Ascender 740

Descender -185

StartCharMetrics 228

C 32 ; WX 280 ; N space ; B 0 0 0 0 ;

C 33 ; WX 280 ; N exclam ; B 73 0 206 740 ;

C 34 ; WX 360 ; N quotedbl ; B 19 444 341 740 ;

C 35 ; WX 560 ; N numbersign ; B 29 0 525 700 ;  
C 36 ; WX 560 ; N dollar ; B 58 -86 501 857 ;  
C 37 ; WX 860 ; N percent ; B 36 -15 822 755 ;  
C 38 ; WX 680 ; N ampersand ; B 34 -15 665 755 ;  
C 39 ; WX 280 ; N quoteright ; B 72 466 205 740 ;  
C 40 ; WX 380 ; N parenleft ; B 74 -157 350 754 ;  
C 41 ; WX 380 ; N parenright ; B 37 -157 313 754 ;  
C 42 ; WX 440 ; N asterisk ; B 67 457 374 755 ;  
C 43 ; WX 600 ; N plus ; B 48 0 552 506 ;  
C 44 ; WX 280 ; N comma ; B 73 -141 206 133 ;  
C 45 ; WX 420 ; N hyphen ; B 71 230 349 348 ;  
C 46 ; WX 280 ; N period ; B 73 0 206 133 ;  
C 47 ; WX 460 ; N slash ; B 6 -100 454 740 ;  
C 48 ; WX 560 ; N zero ; B 32 -15 529 755 ;  
C 49 ; WX 560 ; N one ; B 137 0 363 740 ;  
C 50 ; WX 560 ; N two ; B 36 0 523 755 ;  
C 51 ; WX 560 ; N three ; B 28 -15 532 755 ;  
C 52 ; WX 560 ; N four ; B 15 0 545 740 ;  
C 53 ; WX 560 ; N five ; B 25 -15 535 740 ;  
C 54 ; WX 560 ; N six ; B 23 -15 536 739 ;  
C 55 ; WX 560 ; N seven ; B 62 0 498 740 ;  
C 56 ; WX 560 ; N eight ; B 33 -15 527 755 ;  
C 57 ; WX 560 ; N nine ; B 24 0 537 754 ;  
C 58 ; WX 280 ; N colon ; B 73 0 206 555 ;  
C 59 ; WX 280 ; N semicolon ; B 73 -141 206 555 ;  
C 60 ; WX 600 ; N less ; B 46 -8 554 514 ;  
C 61 ; WX 600 ; N equal ; B 48 81 552 425 ;  
C 62 ; WX 600 ; N greater ; B 46 -8 554 514 ;  
C 63 ; WX 560 ; N question ; B 38 0 491 755 ;  
C 64 ; WX 740 ; N at ; B 50 -12 750 712 ;  
C 65 ; WX 740 ; N A ; B 7 0 732 740 ;  
C 66 ; WX 580 ; N B ; B 70 0 551 740 ;  
C 67 ; WX 780 ; N C ; B 34 -15 766 755 ;  
C 68 ; WX 700 ; N D ; B 63 0 657 740 ;  
C 69 ; WX 520 ; N E ; B 61 0 459 740 ;  
C 70 ; WX 480 ; N F ; B 61 0 438 740 ;  
C 71 ; WX 840 ; N G ; B 27 -15 817 755 ;  
C 72 ; WX 680 ; N H ; B 71 0 610 740 ;  
C 73 ; WX 280 ; N I ; B 72 0 209 740 ;  
C 74 ; WX 480 ; N J ; B 2 -15 409 740 ;  
C 75 ; WX 620 ; N K ; B 89 0 620 740 ;  
C 76 ; WX 440 ; N L ; B 72 0 435 740 ;  
C 77 ; WX 900 ; N M ; B 63 0 837 740 ;  
C 78 ; WX 740 ; N N ; B 70 0 671 740 ;  
C 79 ; WX 840 ; N O ; B 33 -15 807 755 ;  
C 80 ; WX 560 ; N P ; B 72 0 545 740 ;  
C 81 ; WX 840 ; N Q ; B 32 -15 824 755 ;  
C 82 ; WX 580 ; N R ; B 64 0 565 740 ;

C 83 ; WX 520 ; N S ; B 12 -15 493 755 ;  
C 84 ; WX 420 ; N T ; B 6 0 418 740 ;  
C 85 ; WX 640 ; N U ; B 55 -15 585 740 ;  
C 86 ; WX 700 ; N V ; B 8 0 695 740 ;  
C 87 ; WX 900 ; N W ; B 7 0 899 740 ;  
C 88 ; WX 680 ; N X ; B 4 0 676 740 ;  
C 89 ; WX 620 ; N Y ; B -2 0 622 740 ;  
C 90 ; WX 500 ; N Z ; B 19 0 481 740 ;  
C 91 ; WX 320 ; N bracketleft ; B 66 -157 284 754 ;  
C 92 ; WX 640 ; N backslash ; B 96 -100 544 740 ;  
C 93 ; WX 320 ; N bracketright ; B 36 -157 254 754 ;  
C 94 ; WX 600 ; N asciicircum ; B 73 375 527 740 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 280 ; N quoteleft ; B 72 466 205 740 ;  
C 97 ; WX 660 ; N a ; B 27 -18 613 574 ;  
C 98 ; WX 660 ; N b ; B 47 -18 632 740 ;  
C 99 ; WX 640 ; N c ; B 37 -18 610 574 ;  
C 100 ; WX 660 ; N d ; B 34 -18 618 740 ;  
C 101 ; WX 640 ; N e ; B 31 -18 610 577 ;  
C 102 ; WX 280 ; N f ; B 15 0 280 755 ; L i f i ; L l f l ;  
C 103 ; WX 660 ; N g ; B 32 -226 623 574 ;  
C 104 ; WX 600 ; N h ; B 54 0 546 740 ;  
C 105 ; WX 240 ; N i ; B 53 0 186 740 ;  
C 106 ; WX 260 ; N j ; B 16 -185 205 740 ;  
C 107 ; WX 580 ; N k ; B 80 0 571 740 ;  
C 108 ; WX 240 ; N l ; B 54 0 187 740 ;  
C 109 ; WX 940 ; N m ; B 54 0 887 574 ;  
C 110 ; WX 600 ; N n ; B 54 0 547 574 ;  
C 111 ; WX 640 ; N o ; B 25 -18 615 574 ;  
C 112 ; WX 660 ; N p ; B 47 -185 629 574 ;  
C 113 ; WX 660 ; N q ; B 31 -185 613 574 ;  
C 114 ; WX 320 ; N r ; B 63 0 317 574 ;  
C 115 ; WX 440 ; N s ; B 19 -18 421 574 ;  
C 116 ; WX 300 ; N t ; B 21 0 299 740 ;  
C 117 ; WX 600 ; N u ; B 50 -18 544 555 ;  
C 118 ; WX 560 ; N v ; B 3 0 556 555 ;  
C 119 ; WX 800 ; N w ; B 11 0 789 555 ;  
C 120 ; WX 560 ; N x ; B 3 0 556 555 ;  
C 121 ; WX 580 ; N y ; B 8 -185 571 555 ;  
C 122 ; WX 460 ; N z ; B 20 0 442 555 ;  
C 123 ; WX 340 ; N braceleft ; B -3 -191 317 747 ;  
C 124 ; WX 600 ; N bar ; B 233 -100 366 740 ;  
C 125 ; WX 340 ; N braceright ; B 23 -191 343 747 ;  
C 126 ; WX 600 ; N asciitilde ; B 67 160 533 347 ;  
C 161 ; WX 280 ; N exclamdown ; B 74 -185 207 555 ;  
C 162 ; WX 560 ; N cent ; B 43 39 517 715 ;  
C 163 ; WX 560 ; N sterling ; B -2 0 562 755 ;  
C 164 ; WX 160 ; N fraction ; B -123 0 282 740 ;

C 165 ; WX 560 ; N yen ; B -10 0 570 740 ;  
C 166 ; WX 560 ; N florin ; B 0 -151 512 824 ;  
C 167 ; WX 560 ; N section ; B 28 -158 530 755 ;  
C 168 ; WX 560 ; N currency ; B 27 69 534 577 ;  
C 169 ; WX 220 ; N quotesingle ; B 44 444 177 740 ;  
C 170 ; WX 480 ; N quotedblleft ; B 70 466 410 740 ;  
C 171 ; WX 460 ; N guillemotleft ; B 61 108 400 469 ;  
C 172 ; WX 240 ; N guilsinglleft ; B 50 108 190 469 ;  
C 173 ; WX 240 ; N guilsinglright ; B 50 108 190 469 ;  
C 174 ; WX 520 ; N fi ; B 25 0 461 755 ;  
C 175 ; WX 520 ; N fl ; B 25 0 461 755 ;  
C 177 ; WX 500 ; N endash ; B 35 230 465 348 ;  
C 178 ; WX 560 ; N dagger ; B 51 -142 509 740 ;  
C 179 ; WX 560 ; N daggerdbl ; B 51 -142 509 740 ;  
C 180 ; WX 280 ; N periodcentered ; B 73 187 206 320 ;  
C 182 ; WX 600 ; N paragraph ; B -7 -103 607 740 ;  
C 183 ; WX 600 ; N bullet ; B 148 222 453 532 ;  
C 184 ; WX 280 ; N quotesinglbase ; B 72 -141 205 133 ;  
C 185 ; WX 480 ; N quotedblbase ; B 70 -141 410 133 ;  
C 186 ; WX 480 ; N quotedblright ; B 70 466 410 740 ;  
C 187 ; WX 460 ; N guillemotright ; B 61 108 400 469 ;  
C 188 ; WX 1000 ; N ellipsis ; B 100 0 899 133 ;  
C 189 ; WX 1280 ; N perthousand ; B 36 -15 1222 755 ;  
C 191 ; WX 560 ; N questiondown ; B 68 -200 521 555 ;  
C 193 ; WX 420 ; N grave ; B 50 624 329 851 ;  
C 194 ; WX 420 ; N acute ; B 91 624 370 849 ;  
C 195 ; WX 540 ; N circumflex ; B 71 636 470 774 ;  
C 196 ; WX 480 ; N tilde ; B 44 636 437 767 ;  
C 197 ; WX 420 ; N macron ; B 72 648 349 759 ;  
C 198 ; WX 480 ; N breve ; B 42 633 439 770 ;  
C 199 ; WX 280 ; N dotaccent ; B 74 636 207 769 ;  
C 200 ; WX 500 ; N dieresis ; B 78 636 422 769 ;  
C 202 ; WX 360 ; N ring ; B 73 619 288 834 ;  
C 203 ; WX 340 ; N cedilla ; B 98 -251 298 6 ;  
C 205 ; WX 700 ; N hungarumlaut ; B 132 610 609 862 ;  
C 206 ; WX 340 ; N ogonek ; B 79 -195 262 9 ;  
C 207 ; WX 540 ; N caron ; B 71 636 470 774 ;  
C 208 ; WX 1000 ; N emdash ; B 35 230 965 348 ;  
C 225 ; WX 900 ; N AE ; B -5 0 824 740 ;  
C 227 ; WX 360 ; N ordfeminine ; B 19 438 334 755 ;  
C 232 ; WX 480 ; N Lslash ; B 26 0 460 740 ;  
C 233 ; WX 840 ; N Oslash ; B 33 -71 807 814 ;  
C 234 ; WX 1060 ; N OE ; B 37 -15 1007 755 ;  
C 235 ; WX 360 ; N ordmasculine ; B 23 438 338 755 ;  
C 241 ; WX 1080 ; N ae ; B 29 -18 1048 574 ;  
C 245 ; WX 240 ; N dotlessi ; B 53 0 186 555 ;  
C 248 ; WX 320 ; N lslash ; B 34 0 305 740 ;  
C 249 ; WX 660 ; N oslash ; B 35 -50 625 608 ;

C 250 ; WX 1080 ; N oe ; B 30 -18 1050 574 ;  
C 251 ; WX 600 ; N germandbls ; B 51 -18 585 755 ;  
C -1 ; WX 640 ; N ecircumflex ; B 31 -18 610 774 ;  
C -1 ; WX 640 ; N edieresis ; B 31 -18 610 769 ;  
C -1 ; WX 660 ; N aacute ; B 27 -18 613 849 ;  
C -1 ; WX 740 ; N registered ; B -12 -12 752 752 ;  
C -1 ; WX 240 ; N icircumflex ; B -79 0 320 774 ;  
C -1 ; WX 600 ; N udieresis ; B 50 -18 544 769 ;  
C -1 ; WX 640 ; N ograve ; B 25 -18 615 851 ;  
C -1 ; WX 600 ; N uacute ; B 50 -18 544 849 ;  
C -1 ; WX 600 ; N ucircumflex ; B 50 -18 544 774 ;  
C -1 ; WX 740 ; N Aacute ; B 7 0 732 1019 ;  
C -1 ; WX 240 ; N igrave ; B -65 0 214 851 ;  
C -1 ; WX 280 ; N Icircumflex ; B -59 0 340 944 ;  
C -1 ; WX 640 ; N ccedilla ; B 37 -251 610 574 ;  
C -1 ; WX 660 ; N adieresis ; B 27 -18 613 769 ;  
C -1 ; WX 520 ; N Ecircumflex ; B 61 0 460 944 ;  
C -1 ; WX 440 ; N scaron ; B 19 -18 421 774 ;  
C -1 ; WX 660 ; N thorn ; B 47 -185 629 740 ;  
C -1 ; WX 1000 ; N trademark ; B 9 296 821 740 ;  
C -1 ; WX 640 ; N egrave ; B 31 -18 610 851 ;  
C -1 ; WX 336 ; N threesuperior ; B 8 287 328 749 ;  
C -1 ; WX 460 ; N zcaron ; B 20 0 455 774 ;  
C -1 ; WX 660 ; N atilde ; B 27 -18 613 767 ;  
C -1 ; WX 660 ; N aring ; B 27 -18 613 834 ;  
C -1 ; WX 640 ; N ocircumflex ; B 25 -18 615 774 ;  
C -1 ; WX 520 ; N Edieresis ; B 61 0 459 939 ;  
C -1 ; WX 840 ; N threequarters ; B 18 0 803 749 ;  
C -1 ; WX 580 ; N ydieresis ; B 8 -185 571 769 ;  
C -1 ; WX 580 ; N yacute ; B 8 -185 571 849 ;  
C -1 ; WX 240 ; N iacute ; B 26 0 305 849 ;  
C -1 ; WX 740 ; N Acircumflex ; B 7 0 732 944 ;  
C -1 ; WX 640 ; N Uacute ; B 55 -15 585 1019 ;  
C -1 ; WX 640 ; N eacute ; B 31 -18 610 849 ;  
C -1 ; WX 840 ; N Ograve ; B 33 -15 807 1021 ;  
C -1 ; WX 660 ; N agrave ; B 27 -18 613 851 ;  
C -1 ; WX 640 ; N Udieresis ; B 55 -15 585 939 ;  
C -1 ; WX 660 ; N acircumflex ; B 27 -18 613 774 ;  
C -1 ; WX 280 ; N Igrave ; B -45 0 234 1021 ;  
C -1 ; WX 336 ; N twosuperior ; B 13 296 322 749 ;  
C -1 ; WX 640 ; N Ugrave ; B 55 -15 585 1021 ;  
C -1 ; WX 840 ; N onequarter ; B 92 0 746 740 ;  
C -1 ; WX 640 ; N Ucircumflex ; B 55 -15 585 944 ;  
C -1 ; WX 520 ; N Scaron ; B 12 -15 493 944 ;  
C -1 ; WX 280 ; N Idieresis ; B -32 0 312 939 ;  
C -1 ; WX 240 ; N idieresis ; B -52 0 292 769 ;  
C -1 ; WX 520 ; N Egrave ; B 61 0 459 1021 ;  
C -1 ; WX 840 ; N Oacute ; B 33 -15 807 1019 ;



C -1 ; WX 600 ; N divide ; B 48 -20 552 526 ;  
C -1 ; WX 740 ; N Atilde ; B 7 0 732 937 ;  
C -1 ; WX 740 ; N Aring ; B 7 0 732 969 ;  
C -1 ; WX 840 ; N Odieresis ; B 33 -15 807 939 ;  
C -1 ; WX 740 ; N Adieresis ; B 7 0 732 939 ;  
C -1 ; WX 740 ; N Ntilde ; B 70 0 671 937 ;  
C -1 ; WX 500 ; N Zcaron ; B 19 0 481 944 ;  
C -1 ; WX 560 ; N Thorn ; B 72 0 545 740 ;  
C -1 ; WX 280 ; N Iacute ; B 46 0 325 1019 ;  
C -1 ; WX 600 ; N plusminus ; B 48 -62 552 556 ;  
C -1 ; WX 600 ; N multiply ; B 59 12 541 494 ;  
C -1 ; WX 520 ; N Eacute ; B 61 0 459 1019 ;  
C -1 ; WX 620 ; N Ydieresis ; B -2 0 622 939 ;  
C -1 ; WX 336 ; N onesuperior ; B 72 296 223 740 ;  
C -1 ; WX 600 ; N ugrave ; B 50 -18 544 851 ;  
C -1 ; WX 600 ; N logicalnot ; B 48 108 552 425 ;  
C -1 ; WX 600 ; N ntilde ; B 54 0 547 767 ;  
C -1 ; WX 840 ; N Otilde ; B 33 -15 807 937 ;  
C -1 ; WX 640 ; N otilde ; B 25 -18 615 767 ;  
C -1 ; WX 780 ; N Ccedilla ; B 34 -251 766 755 ;  
C -1 ; WX 740 ; N Agrave ; B 7 0 732 1021 ;  
C -1 ; WX 840 ; N onehalf ; B 62 0 771 740 ;  
C -1 ; WX 742 ; N Eth ; B 25 0 691 740 ;  
C -1 ; WX 400 ; N degree ; B 57 426 343 712 ;  
C -1 ; WX 620 ; N Yacute ; B -2 0 622 1019 ;  
C -1 ; WX 840 ; N Ocircumflex ; B 33 -15 807 944 ;  
C -1 ; WX 640 ; N oacute ; B 25 -18 615 849 ;  
C -1 ; WX 576 ; N mu ; B 38 -187 539 555 ;  
C -1 ; WX 600 ; N minus ; B 48 193 552 313 ;  
C -1 ; WX 640 ; N eth ; B 27 -18 616 754 ;  
C -1 ; WX 640 ; N odieresis ; B 25 -18 615 769 ;  
C -1 ; WX 740 ; N copyright ; B -12 -12 752 752 ;  
C -1 ; WX 600 ; N brokenbar ; B 233 -100 366 740 ;

EndCharMetrics

StartKernData

StartKernPairs 218

KPX A y -50

KPX A w -65

KPX A v -70

KPX A u -20

KPX A quoteright -90

KPX A Y -80

KPX A W -60

KPX A V -102

KPX A U -40

KPX A T -25

KPX A Q -50

KPX A O -50

KPX A G -40

KPX A C -40

KPX B A -10

KPX C A -40

KPX D period -20

KPX D comma -20

KPX D Y -45

KPX D W -25

KPX D V -50

KPX D A -50

KPX F period -129

KPX F e -20

KPX F comma -162

KPX F a -20

KPX F A -75

KPX G period -20

KPX G comma -20

KPX G Y -15

KPX J period -15

KPX J a -20

KPX J A -30

KPX K y -20

KPX K u -15

KPX K o -45

KPX K e -40

KPX K O -30

KPX L y -23

KPX L quoteright -30

KPX L quotedblright -30

KPX L Y -80

KPX L W -55

KPX L V -85

KPX L T -46

KPX O period -30

KPX O comma -30

KPX O Y -30

KPX O X -30

KPX O W -20

KPX O V -45  
KPX O T -15  
KPX O A -60

KPX P period -200  
KPX P o -20  
KPX P e -20  
KPX P comma -220  
KPX P a -20  
KPX P A -100

KPX Q comma 20

KPX R W 25  
KPX R V -10  
KPX R U 25  
KPX R T 40  
KPX R O 25

KPX S comma 20

KPX T y -10  
KPX T w -55  
KPX T u -46  
KPX T semicolon -29  
KPX T r -30  
KPX T period -91  
KPX T o -49  
KPX T hyphen -75  
KPX T e -49  
KPX T comma -82  
KPX T colon -15  
KPX T a -70  
KPX T O -15  
KPX T A -25

KPX U period -20  
KPX U comma -20  
KPX U A -40

KPX V u -55  
KPX V semicolon -33  
KPX V period -145  
KPX V o -101  
KPX V i -15  
KPX V hyphen -75  
KPX V e -101  
KPX V comma -145

KPX V colon -18  
KPX V a -95  
KPX V O -45  
KPX V G -20  
KPX V A -102

KPX W y -15  
KPX W u -30  
KPX W semicolon -33  
KPX W period -106  
KPX W o -46  
KPX W i -10  
KPX W hyphen -35  
KPX W e -47  
KPX W comma -106  
KPX W colon -15  
KPX W a -50  
KPX W O -20  
KPX W A -58

KPX Y u -52  
KPX Y semicolon -23  
KPX Y period -145  
KPX Y o -89  
KPX Y hyphen -100  
KPX Y e -89  
KPX Y comma -145  
KPX Y colon -10  
KPX Y a -93  
KPX Y O -30  
KPX Y A -80

KPX a t 5  
KPX a p 20  
KPX a b 5

KPX b y -20  
KPX b v -20

KPX c y -20  
KPX c l -15  
KPX c k -15

KPX comma space -50  
KPX comma quoteright -70  
KPX comma quotedblright -70

KPX e y -20

KPX e x -20

KPX e w -20

KPX e v -20

KPX f period -40

KPX f o -20

KPX f l -15

KPX f i -15

KPX f f -20

KPX f dotlessi -15

KPX f comma -40

KPX f a -15

KPX g i 25

KPX g a 15

KPX h y -30

KPX k y -5

KPX k o -30

KPX k e -40

KPX m y -20

KPX m u -20

KPX n y -15

KPX n v -30

KPX o y -20

KPX o x -30

KPX o w -20

KPX o v -30

KPX p y -20

KPX period space -50

KPX period quoteright -70

KPX period quotedblright -70

KPX quotedblleft A -50

KPX quotedblright space -50

KPX quoteleft quoteleft -80

KPX quoteleft A -50

KPX quoteright v -10

KPX quoteright t 10

KPX quoteright space -50  
KPX quoteright s -15  
KPX quoteright r -20  
KPX quoteright quoteright -80  
KPX quoteright d -50

KPX r y 40  
KPX r v 40  
KPX r u 20  
KPX r t 20  
KPX r s 20  
KPX r q -8  
KPX r period -73  
KPX r p 20  
KPX r o -15  
KPX r n 21  
KPX r m 15  
KPX r l 20  
KPX r k 5  
KPX r i 20  
KPX r hyphen -60  
KPX r g 1  
KPX r e -4  
KPX r d -6  
KPX r comma -75  
KPX r c -7

KPX s period 20  
KPX s comma 20

KPX space quoteleft -50  
KPX space quotedblleft -50  
KPX space Y -60  
KPX space W -25  
KPX space V -80  
KPX space T -25  
KPX space A -20

KPX v period -90  
KPX v o -20  
KPX v e -20  
KPX v comma -90  
KPX v a -30

KPX w period -90  
KPX w o -30  
KPX w e -20  
KPX w comma -90

KPX w a -30

KPX x e -20

KPX y period -100

KPX y o -30

KPX y e -20

KPX y comma -100

KPX y c -35

KPX y a -30

EndKernPairs

EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 170 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 100 170 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 120 170 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 170 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 190 135 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 130 170 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 50 170 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex -10 170 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 10 170 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 50 170 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -45 170 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -130 170 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -110 170 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -95 170 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 170 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 210 170 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 150 170 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 170 170 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 210 170 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 180 170 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron -10 170 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 145 170 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 50 170 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 70 170 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 75 170 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 135 170 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 60 170 ;  
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 5 170 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 60 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 150 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 90 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 110 0 ;

CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 50 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 70 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 110 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -65 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -150 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -130 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -115 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 60 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 50 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 70 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 110 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 80 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron -50 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 125 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 30 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 50 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 55 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 115 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 40 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron -15 0 ;

EndComposites

EndFontMetrics

StartFontMetrics 2.0

Comment Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jan 11 17:38:44 PST 1988

FontName Helvetica-LightOblique

EncodingScheme AdobeStandardEncoding

FullName Helvetica Light Oblique

FamilyName Helvetica

Weight Light

ItalicAngle -12.0

IsFixedPitch false

UnderlinePosition -90

UnderlineThickness 58

Version 001.002

Notice Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype Company.

FontBBox -167 -212 1110 979

CapHeight 720

XHeight 518

Descender -204

Ascender 720

StartCharMetrics 228

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 130 0 356 720 ;

C 34 ; WX 278 ; N quotedbl ; B 162 494 373 720 ;

C 35 ; WX 556 ; N numbersign ; B 75 0 633 698 ;



C 36 ; WX 556 ; N dollar ; B 75 -95 613 766 ;  
C 37 ; WX 889 ; N percent ; B 176 -14 860 705 ;  
C 38 ; WX 667 ; N ampersand ; B 77 -19 646 720 ;  
C 39 ; WX 222 ; N quoteright ; B 185 495 306 720 ;  
C 40 ; WX 333 ; N parenleft ; B 97 -191 434 739 ;  
C 41 ; WX 333 ; N parenright ; B 15 -191 353 739 ;  
C 42 ; WX 389 ; N asterisk ; B 172 434 472 720 ;  
C 43 ; WX 660 ; N plus ; B 127 0 640 500 ;  
C 44 ; WX 278 ; N comma ; B 73 -137 194 88 ;  
C 45 ; WX 333 ; N hyphen ; B 89 229 355 291 ;  
C 46 ; WX 278 ; N period ; B 102 0 194 88 ;  
C 47 ; WX 278 ; N slash ; B -22 -90 445 739 ;  
C 48 ; WX 556 ; N zero ; B 93 -14 609 705 ;  
C 49 ; WX 556 ; N one ; B 231 0 516 705 ;  
C 50 ; WX 556 ; N two ; B 48 0 628 705 ;  
C 51 ; WX 556 ; N three ; B 74 -14 605 705 ;  
C 52 ; WX 556 ; N four ; B 73 0 570 698 ;  
C 53 ; WX 556 ; N five ; B 71 -14 616 698 ;  
C 54 ; WX 556 ; N six ; B 94 -14 617 705 ;  
C 55 ; WX 556 ; N seven ; B 152 0 656 698 ;  
C 56 ; WX 556 ; N eight ; B 80 -14 601 705 ;  
C 57 ; WX 556 ; N nine ; B 84 -14 607 705 ;  
C 58 ; WX 278 ; N colon ; B 102 0 280 492 ;  
C 59 ; WX 278 ; N semicolon ; B 73 -137 280 492 ;  
C 60 ; WX 660 ; N less ; B 129 -6 687 505 ;  
C 61 ; WX 660 ; N equal ; B 106 124 660 378 ;  
C 62 ; WX 660 ; N greater ; B 79 -6 640 505 ;  
C 63 ; WX 500 ; N question ; B 148 0 594 739 ;  
C 64 ; WX 800 ; N at ; B 108 -19 857 739 ;  
C 65 ; WX 667 ; N A ; B 15 0 651 720 ;  
C 66 ; WX 667 ; N B ; B 81 0 697 720 ;  
C 67 ; WX 722 ; N C ; B 111 -19 771 739 ;  
C 68 ; WX 722 ; N D ; B 81 0 758 720 ;  
C 69 ; WX 611 ; N E ; B 81 0 713 720 ;  
C 70 ; WX 556 ; N F ; B 74 0 691 720 ;  
C 71 ; WX 778 ; N G ; B 116 -19 796 739 ;  
C 72 ; WX 722 ; N H ; B 80 0 795 720 ;  
C 73 ; WX 278 ; N I ; B 105 0 326 720 ;  
C 74 ; WX 500 ; N J ; B 58 -19 568 720 ;  
C 75 ; WX 667 ; N K ; B 85 0 752 720 ;  
C 76 ; WX 556 ; N L ; B 81 0 547 720 ;  
C 77 ; WX 833 ; N M ; B 78 0 908 720 ;  
C 78 ; WX 722 ; N N ; B 79 0 795 720 ;  
C 79 ; WX 778 ; N O ; B 117 -19 812 739 ;  
C 80 ; WX 611 ; N P ; B 78 0 693 720 ;  
C 81 ; WX 778 ; N Q ; B 112 -52 808 739 ;  
C 82 ; WX 667 ; N R ; B 80 0 726 720 ;  
C 83 ; WX 611 ; N S ; B 82 -19 663 739 ;

C 84 ; WX 556 ; N T ; B 157 0 693 720 ;  
C 85 ; WX 722 ; N U ; B 129 -19 793 720 ;  
C 86 ; WX 611 ; N V ; B 171 0 746 720 ;  
C 87 ; WX 889 ; N W ; B 167 0 1028 720 ;  
C 88 ; WX 611 ; N X ; B 18 0 734 720 ;  
C 89 ; WX 611 ; N Y ; B 165 0 751 720 ;  
C 90 ; WX 611 ; N Z ; B 31 0 729 720 ;  
C 91 ; WX 333 ; N bracketleft ; B 50 -191 439 739 ;  
C 92 ; WX 278 ; N backslash ; B 111 0 324 739 ;  
C 93 ; WX 333 ; N bracketright ; B 10 -191 399 739 ;  
C 94 ; WX 660 ; N asciicircum ; B 125 245 638 698 ;  
C 95 ; WX 500 ; N underscore ; B -25 -119 487 -61 ;  
C 96 ; WX 222 ; N quoteleft ; B 174 495 295 720 ;  
C 97 ; WX 556 ; N a ; B 71 -14 555 532 ;  
C 98 ; WX 611 ; N b ; B 79 -14 619 720 ;  
C 99 ; WX 556 ; N c ; B 92 -14 576 532 ;  
C 100 ; WX 611 ; N d ; B 101 -14 685 720 ;  
C 101 ; WX 556 ; N e ; B 90 -14 575 532 ;  
C 102 ; WX 278 ; N f ; B 97 0 412 734 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 56 -212 642 532 ;  
C 104 ; WX 556 ; N h ; B 72 0 565 720 ;  
C 105 ; WX 222 ; N i ; B 81 0 297 720 ;  
C 106 ; WX 222 ; N j ; B -38 -204 304 720 ;  
C 107 ; WX 500 ; N k ; B 68 0 574 720 ;  
C 108 ; WX 222 ; N l ; B 81 0 294 720 ;  
C 109 ; WX 833 ; N m ; B 64 0 848 532 ;  
C 110 ; WX 556 ; N n ; B 72 0 565 532 ;  
C 111 ; WX 556 ; N o ; B 84 -14 582 532 ;  
C 112 ; WX 611 ; N p ; B 36 -204 620 532 ;  
C 113 ; WX 611 ; N q ; B 102 -204 642 532 ;  
C 114 ; WX 333 ; N r ; B 75 0 419 532 ;  
C 115 ; WX 500 ; N s ; B 78 -14 519 532 ;  
C 116 ; WX 278 ; N t ; B 108 -14 360 662 ;  
C 117 ; WX 556 ; N u ; B 103 -14 593 518 ;  
C 118 ; WX 500 ; N v ; B 127 0 593 518 ;  
C 119 ; WX 722 ; N w ; B 125 0 817 518 ;  
C 120 ; WX 500 ; N x ; B 18 0 584 518 ;  
C 121 ; WX 500 ; N y ; B 26 -204 592 518 ;  
C 122 ; WX 500 ; N z ; B 33 0 564 518 ;  
C 123 ; WX 333 ; N braceleft ; B 103 -191 436 739 ;  
C 124 ; WX 222 ; N bar ; B 81 0 298 739 ;  
C 125 ; WX 333 ; N braceright ; B 12 -187 344 743 ;  
C 126 ; WX 660 ; N asciitilde ; B 127 174 645 339 ;  
C 161 ; WX 333 ; N exclamdown ; B 90 -187 316 532 ;  
C 162 ; WX 556 ; N cent ; B 90 -141 574 647 ;  
C 163 ; WX 556 ; N sterling ; B 51 -14 613 705 ;  
C 164 ; WX 167 ; N fraction ; B -167 -14 481 705 ;  
C 165 ; WX 556 ; N yen ; B 110 0 705 720 ;

C 166 ; WX 556 ; N florin ; B -26 -196 691 734 ;  
C 167 ; WX 556 ; N section ; B 91 -181 581 739 ;  
C 168 ; WX 556 ; N currency ; B 55 50 629 553 ;  
C 169 ; WX 222 ; N quotesingle ; B 190 494 290 720 ;  
C 170 ; WX 389 ; N quotedblleft ; B 191 495 463 720 ;  
C 171 ; WX 556 ; N guillemotleft ; B 161 117 529 404 ;  
C 172 ; WX 389 ; N guilsinglleft ; B 169 117 353 404 ;  
C 173 ; WX 389 ; N guilsinglright ; B 147 117 330 404 ;  
C 174 ; WX 500 ; N fi ; B 92 0 588 734 ;  
C 175 ; WX 500 ; N fl ; B 92 0 585 734 ;  
C 177 ; WX 500 ; N endash ; B 51 238 560 282 ;  
C 178 ; WX 556 ; N dagger ; B 130 -166 623 720 ;  
C 179 ; WX 556 ; N daggerdbl ; B 49 -166 625 720 ;  
C 180 ; WX 278 ; N periodcentered ; B 163 301 262 398 ;  
C 182 ; WX 650 ; N paragraph ; B 174 -146 659 720 ;  
C 183 ; WX 500 ; N bullet ; B 142 180 510 540 ;  
C 184 ; WX 222 ; N quotesinglbase ; B 51 -137 172 88 ;  
C 185 ; WX 389 ; N quotedblbase ; B 50 -137 322 88 ;  
C 186 ; WX 389 ; N quotedblright ; B 184 495 456 720 ;  
C 187 ; WX 556 ; N guillemotright ; B 138 117 505 404 ;  
C 188 ; WX 1000 ; N ellipsis ; B 131 0 889 88 ;  
C 189 ; WX 1000 ; N perthousand ; B 83 -14 1020 705 ;  
C 191 ; WX 500 ; N questiondown ; B 19 -207 465 532 ;  
C 193 ; WX 333 ; N grave ; B 197 574 356 713 ;  
C 194 ; WX 333 ; N acute ; B 231 574 449 713 ;  
C 195 ; WX 333 ; N circumflex ; B 146 574 440 713 ;  
C 196 ; WX 333 ; N tilde ; B 141 586 475 688 ;  
C 197 ; WX 333 ; N macron ; B 153 612 459 657 ;  
C 198 ; WX 333 ; N breve ; B 177 580 466 706 ;  
C 199 ; WX 333 ; N dotaccent ; B 258 584 345 686 ;  
C 200 ; WX 333 ; N dieresis ; B 184 584 430 686 ;  
C 202 ; WX 333 ; N ring ; B 209 578 412 777 ;  
C 203 ; WX 333 ; N cedilla ; B 14 -207 233 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 231 574 611 713 ;  
C 206 ; WX 333 ; N ogonek ; B 50 -190 199 0 ;  
C 207 ; WX 333 ; N caron ; B 176 574 470 713 ;  
C 208 ; WX 1000 ; N emdash ; B 51 238 1060 282 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 1101 720 ;  
C 227 ; WX 334 ; N ordfeminine ; B 73 307 423 739 ;  
C 232 ; WX 556 ; N Lslash ; B 68 0 547 720 ;  
C 233 ; WX 778 ; N Oslash ; B 41 -37 887 747 ;  
C 234 ; WX 1000 ; N OE ; B 104 -19 1110 739 ;  
C 235 ; WX 334 ; N ordmasculine ; B 76 307 450 739 ;  
C 241 ; WX 889 ; N ae ; B 63 -14 913 532 ;  
C 245 ; WX 222 ; N dotlessi ; B 78 0 248 518 ;  
C 248 ; WX 222 ; N lslash ; B 74 0 316 720 ;  
C 249 ; WX 556 ; N oslash ; B 36 -23 629 541 ;  
C 250 ; WX 944 ; N oe ; B 82 -14 970 532 ;

C 251 ; WX 500 ; N germandbls ; B 52 -14 554 734 ;  
C -1 ; WX 667 ; N Aacute ; B 15 0 659 915 ;  
C -1 ; WX 667 ; N Acircumflex ; B 15 0 651 915 ;  
C -1 ; WX 667 ; N Adieresis ; B 15 0 651 888 ;  
C -1 ; WX 667 ; N Agrave ; B 15 0 651 915 ;  
C -1 ; WX 667 ; N Aring ; B 15 0 651 979 ;  
C -1 ; WX 667 ; N Atilde ; B 15 0 685 890 ;  
C -1 ; WX 722 ; N Ccedilla ; B 111 -207 771 739 ;  
C -1 ; WX 611 ; N Eacute ; B 81 0 713 915 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 81 0 713 915 ;  
C -1 ; WX 611 ; N Edieresis ; B 81 0 713 888 ;  
C -1 ; WX 611 ; N Egrave ; B 81 0 713 915 ;  
C -1 ; WX 722 ; N Eth ; B 81 0 758 720 ;  
C -1 ; WX 278 ; N Iacute ; B 105 0 445 915 ;  
C -1 ; WX 278 ; N Icircumflex ; B 105 0 436 915 ;  
C -1 ; WX 278 ; N Idieresis ; B 105 0 426 888 ;  
C -1 ; WX 278 ; N Igrave ; B 105 0 372 915 ;  
C -1 ; WX 722 ; N Ntilde ; B 79 0 795 890 ;  
C -1 ; WX 778 ; N Oacute ; B 117 -19 812 915 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 117 -19 812 915 ;  
C -1 ; WX 778 ; N Odieresis ; B 117 -19 812 888 ;  
C -1 ; WX 778 ; N Ograve ; B 117 -19 812 915 ;  
C -1 ; WX 778 ; N Otilde ; B 117 -19 812 890 ;  
C -1 ; WX 611 ; N Scaron ; B 82 -19 663 915 ;  
C -1 ; WX 611 ; N Thorn ; B 78 0 661 720 ;  
C -1 ; WX 722 ; N Uacute ; B 129 -19 793 915 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 129 -19 793 915 ;  
C -1 ; WX 722 ; N Udieresis ; B 129 -19 793 888 ;  
C -1 ; WX 722 ; N Ugrave ; B 129 -19 793 915 ;  
C -1 ; WX 611 ; N Yacute ; B 165 0 751 915 ;  
C -1 ; WX 611 ; N Ydieresis ; B 165 0 751 888 ;  
C -1 ; WX 611 ; N Zcaron ; B 31 0 729 915 ;  
C -1 ; WX 556 ; N aacute ; B 71 -14 561 713 ;  
C -1 ; WX 556 ; N acircumflex ; B 71 -14 555 713 ;  
C -1 ; WX 556 ; N adieresis ; B 71 -14 555 686 ;  
C -1 ; WX 556 ; N agrave ; B 71 -14 555 713 ;  
C -1 ; WX 556 ; N aring ; B 71 -14 555 777 ;  
C -1 ; WX 556 ; N atilde ; B 71 -14 587 688 ;  
C -1 ; WX 222 ; N brokenbar ; B 81 0 298 739 ;  
C -1 ; WX 556 ; N ccedilla ; B 92 -207 576 532 ;  
C -1 ; WX 800 ; N copyright ; B 89 -19 864 739 ;  
C -1 ; WX 400 ; N degree ; B 165 405 471 705 ;  
C -1 ; WX 660 ; N divide ; B 127 0 640 500 ;  
C -1 ; WX 556 ; N eacute ; B 90 -14 575 713 ;  
C -1 ; WX 556 ; N ecircumflex ; B 90 -14 575 713 ;  
C -1 ; WX 556 ; N edieresis ; B 90 -14 575 686 ;  
C -1 ; WX 556 ; N egrave ; B 90 -14 575 713 ;  
C -1 ; WX 556 ; N eth ; B 84 -14 582 739 ;

C -1 ; WX 222 ; N iacute ; B 78 0 374 713 ;  
C -1 ; WX 222 ; N icircumflex ; B 71 0 365 713 ;  
C -1 ; WX 222 ; N idieresis ; B 78 0 355 686 ;  
C -1 ; WX 222 ; N igrave ; B 78 0 301 713 ;  
C -1 ; WX 660 ; N logicalnot ; B 148 112 660 378 ;  
C -1 ; WX 660 ; N minus ; B 127 220 640 280 ;  
C -1 ; WX 556 ; N mu ; B 29 -204 593 518 ;  
C -1 ; WX 660 ; N multiply ; B 92 6 677 500 ;  
C -1 ; WX 556 ; N ntilde ; B 72 0 587 688 ;  
C -1 ; WX 556 ; N oacute ; B 84 -14 582 713 ;  
C -1 ; WX 556 ; N ocircumflex ; B 84 -14 582 713 ;  
C -1 ; WX 556 ; N odieresis ; B 84 -14 582 686 ;  
C -1 ; WX 556 ; N ograve ; B 84 -14 582 713 ;  
C -1 ; WX 834 ; N onehalf ; B 125 -14 862 739 ;  
C -1 ; WX 834 ; N onequarter ; B 165 -14 823 739 ;  
C -1 ; WX 333 ; N onesuperior ; B 221 316 404 739 ;  
C -1 ; WX 556 ; N otilde ; B 84 -14 587 688 ;  
C -1 ; WX 660 ; N plusminus ; B 80 0 650 500 ;  
C -1 ; WX 800 ; N registered ; B 89 -19 864 739 ;  
C -1 ; WX 500 ; N scaron ; B 78 -14 554 713 ;  
C -1 ; WX 611 ; N thorn ; B 36 -204 620 720 ;  
C -1 ; WX 834 ; N threequarters ; B 131 -14 853 739 ;  
C -1 ; WX 333 ; N threesuperior ; B 102 308 444 739 ;  
C -1 ; WX 940 ; N trademark ; B 174 299 1012 720 ;  
C -1 ; WX 333 ; N twosuperior ; B 82 316 453 739 ;  
C -1 ; WX 556 ; N uacute ; B 103 -14 593 713 ;  
C -1 ; WX 556 ; N ucircumflex ; B 103 -14 593 713 ;  
C -1 ; WX 556 ; N udieresis ; B 103 -14 593 686 ;  
C -1 ; WX 556 ; N ugrave ; B 103 -14 593 713 ;  
C -1 ; WX 500 ; N yacute ; B 26 -204 592 713 ;  
C -1 ; WX 500 ; N ydieresis ; B 26 -204 592 686 ;  
C -1 ; WX 500 ; N zcaron ; B 33 0 564 713 ;

EndCharMetrics

StartKernData

StartKernPairs 115

KPX A y -18

KPX A w -18

KPX A v -18

KPX A quoteright -74

KPX A Y -74

KPX A W -37

KPX A V -74

KPX A T -92

KPX F period -129

KPX F comma -129

KPX F A -55

KPX L y -37  
KPX L quoteright -74  
KPX L Y -111  
KPX L W -55  
KPX L V -92  
KPX L T -92

KPX P period -129  
KPX P comma -129  
KPX P A -74

KPX R y 0  
KPX R Y -37  
KPX R W -18  
KPX R V -18  
KPX R T -18

KPX T y -84  
KPX T w -84  
KPX T u -92  
KPX T semicolon -111  
KPX T s -111  
KPX T r -92  
KPX T period -111  
KPX T o -111  
KPX T i 0  
KPX T hyphen -129  
KPX T e -111  
KPX T comma -111  
KPX T colon -111  
KPX T c -111  
KPX T a -111  
KPX T A -92

KPX V y -18  
KPX V u -37  
KPX V semicolon -74  
KPX V r -37  
KPX V period -129  
KPX V o -55  
KPX V i -18  
KPX V hyphen -55  
KPX V e -55  
KPX V comma -129  
KPX V colon -74  
KPX V a -55  
KPX V A -74

KPX W y 0  
KPX W u -18  
KPX W semicolon -18  
KPX W r -18  
KPX W period -74  
KPX W o -18  
KPX W i 0  
KPX W hyphen 0  
KPX W e -18  
KPX W comma -74  
KPX W colon -18  
KPX W a -37  
KPX W A -37

KPX Y v -40  
KPX Y u -37  
KPX Y semicolon -92  
KPX Y q -92  
KPX Y period -111  
KPX Y p -37  
KPX Y o -92  
KPX Y i -20  
KPX Y hyphen -111  
KPX Y e -92  
KPX Y comma -111  
KPX Y colon -92  
KPX Y a -92  
KPX Y A -74

KPX f quoteright 18  
KPX f f -18

KPX quoteleft quoteleft -18

KPX quoteright t -18  
KPX quoteright s -74  
KPX quoteright quoteright -18

KPX r z 0  
KPX r y 18  
KPX r x 0  
KPX r w 0  
KPX r v 0  
KPX r u 0  
KPX r t 18  
KPX r r 0  
KPX r quoteright 0

KPX r q -18  
KPX r period -92  
KPX r o -18  
KPX r n 18  
KPX r m 18  
KPX r hyphen -55  
KPX r h 0  
KPX r g 0  
KPX r f 18  
KPX r e -18  
KPX r d -18  
KPX r comma -92  
KPX r c -18

KPX v period -74  
KPX v comma -74

KPX w period -55  
KPX w comma -55

KPX y period -92  
KPX y comma -92

EndKernPairs

EndKernData

StartComposites 58

CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 202 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 83 0 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 202 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 83 0 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 194 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 111 0 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 139 202 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 83 0 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 202 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 83 0 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 202 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 202 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 202 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 202 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 111 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 111 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 111 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 111 0 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -47 202 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -47 202 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -47 202 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 202 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -75 0 ;



CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -75 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -75 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -55 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 202 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 202 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 202 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 202 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 111 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 111 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 111 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 111 0 ;  
CC Aacute 2 ; PCC A 0 0 ; PCC acute 167 202 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 167 202 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 167 202 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 167 202 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 111 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 111 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 111 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 111 0 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 222 202 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 222 202 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 222 202 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 222 202 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 111 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 111 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 111 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 111 0 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 202 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 111 0 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 194 202 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 111 0 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 222 202 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 111 0 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 187 202 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 111 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.  
Comment Creation Date: Thu Mar 15 09:43:00 1990  
Comment UniqueID 28357  
Comment VMusage 26878 33770  
FontName Helvetica-Bold  
FullName Helvetica Bold  
FamilyName Helvetica  
Weight Bold  
ItalicAngle 0  
IsFixedPitch false

FontBBox -170 -228 1003 962

UnderlinePosition -100

UnderlineThickness 50

Version 001.007

Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.

EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StartCharMetrics 228

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 90 0 244 718 ;

C 34 ; WX 474 ; N quotedbl ; B 98 447 376 718 ;

C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;

C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;

C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;

C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;

C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;

C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;

C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;

C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;

C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;

C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;

C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;

C 46 ; WX 278 ; N period ; B 64 0 214 146 ;

C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;

C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;

C 49 ; WX 556 ; N one ; B 69 0 378 710 ;

C 50 ; WX 556 ; N two ; B 26 0 511 710 ;

C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;

C 52 ; WX 556 ; N four ; B 27 0 526 710 ;

C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;

C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;

C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;

C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;

C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;

C 58 ; WX 333 ; N colon ; B 92 0 242 512 ;

C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;

C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;

C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;

C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;

C 63 ; WX 611 ; N question ; B 60 0 556 727 ;

C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;

C 65 ; WX 722 ; N A ; B 20 0 702 718 ;

C 66 ; WX 722 ; N B ; B 76 0 669 718 ;

C 67 ; WX 722 ; N C ; B 44 -19 684 737 ;

C 68 ; WX 722 ; N D ; B 76 0 685 718 ;  
C 69 ; WX 667 ; N E ; B 76 0 621 718 ;  
C 70 ; WX 611 ; N F ; B 76 0 587 718 ;  
C 71 ; WX 778 ; N G ; B 44 -19 713 737 ;  
C 72 ; WX 722 ; N H ; B 71 0 651 718 ;  
C 73 ; WX 278 ; N I ; B 64 0 214 718 ;  
C 74 ; WX 556 ; N J ; B 22 -18 484 718 ;  
C 75 ; WX 722 ; N K ; B 87 0 722 718 ;  
C 76 ; WX 611 ; N L ; B 76 0 583 718 ;  
C 77 ; WX 833 ; N M ; B 69 0 765 718 ;  
C 78 ; WX 722 ; N N ; B 69 0 654 718 ;  
C 79 ; WX 778 ; N O ; B 44 -19 734 737 ;  
C 80 ; WX 667 ; N P ; B 76 0 627 718 ;  
C 81 ; WX 778 ; N Q ; B 44 -52 737 737 ;  
C 82 ; WX 722 ; N R ; B 76 0 677 718 ;  
C 83 ; WX 667 ; N S ; B 39 -19 629 737 ;  
C 84 ; WX 611 ; N T ; B 14 0 598 718 ;  
C 85 ; WX 722 ; N U ; B 72 -19 651 718 ;  
C 86 ; WX 667 ; N V ; B 19 0 648 718 ;  
C 87 ; WX 944 ; N W ; B 16 0 929 718 ;  
C 88 ; WX 667 ; N X ; B 14 0 653 718 ;  
C 89 ; WX 667 ; N Y ; B 15 0 653 718 ;  
C 90 ; WX 611 ; N Z ; B 25 0 586 718 ;  
C 91 ; WX 333 ; N bracketleft ; B 63 -196 309 722 ;  
C 92 ; WX 278 ; N backslash ; B -33 -19 311 737 ;  
C 93 ; WX 333 ; N bracketright ; B 24 -196 270 722 ;  
C 94 ; WX 584 ; N asciicircum ; B 62 323 522 698 ;  
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 69 454 209 727 ;  
C 97 ; WX 556 ; N a ; B 29 -14 527 546 ;  
C 98 ; WX 611 ; N b ; B 61 -14 578 718 ;  
C 99 ; WX 556 ; N c ; B 34 -14 524 546 ;  
C 100 ; WX 611 ; N d ; B 34 -14 551 718 ;  
C 101 ; WX 556 ; N e ; B 23 -14 528 546 ;  
C 102 ; WX 333 ; N f ; B 10 0 318 727 ; L i fi ; L l fl ;  
C 103 ; WX 611 ; N g ; B 40 -217 553 546 ;  
C 104 ; WX 611 ; N h ; B 65 0 546 718 ;  
C 105 ; WX 278 ; N i ; B 69 0 209 725 ;  
C 106 ; WX 278 ; N j ; B 3 -214 209 725 ;  
C 107 ; WX 556 ; N k ; B 69 0 562 718 ;  
C 108 ; WX 278 ; N l ; B 69 0 209 718 ;  
C 109 ; WX 889 ; N m ; B 64 0 826 546 ;  
C 110 ; WX 611 ; N n ; B 65 0 546 546 ;  
C 111 ; WX 611 ; N o ; B 34 -14 578 546 ;  
C 112 ; WX 611 ; N p ; B 62 -207 578 546 ;  
C 113 ; WX 611 ; N q ; B 34 -207 552 546 ;  
C 114 ; WX 389 ; N r ; B 64 0 373 546 ;  
C 115 ; WX 556 ; N s ; B 30 -14 519 546 ;

C 116 ; WX 333 ; N t ; B 10 -6 309 676 ;  
C 117 ; WX 611 ; N u ; B 66 -14 545 532 ;  
C 118 ; WX 556 ; N v ; B 13 0 543 532 ;  
C 119 ; WX 778 ; N w ; B 10 0 769 532 ;  
C 120 ; WX 556 ; N x ; B 15 0 541 532 ;  
C 121 ; WX 556 ; N y ; B 10 -214 539 532 ;  
C 122 ; WX 500 ; N z ; B 20 0 480 532 ;  
C 123 ; WX 389 ; N braceleft ; B 48 -196 365 722 ;  
C 124 ; WX 280 ; N bar ; B 84 -19 196 737 ;  
C 125 ; WX 389 ; N braceright ; B 24 -196 341 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 61 163 523 343 ;  
C 161 ; WX 333 ; N exclamdown ; B 90 -186 244 532 ;  
C 162 ; WX 556 ; N cent ; B 34 -118 524 628 ;  
C 163 ; WX 556 ; N sterling ; B 28 -16 541 718 ;  
C 164 ; WX 167 ; N fraction ; B -170 -19 336 710 ;  
C 165 ; WX 556 ; N yen ; B -9 0 565 698 ;  
C 166 ; WX 556 ; N florin ; B -10 -210 516 737 ;  
C 167 ; WX 556 ; N section ; B 34 -184 522 727 ;  
C 168 ; WX 556 ; N currency ; B -3 76 559 636 ;  
C 169 ; WX 238 ; N quotesingle ; B 70 447 168 718 ;  
C 170 ; WX 500 ; N quotedblleft ; B 64 454 436 727 ;  
C 171 ; WX 556 ; N guillemotleft ; B 88 76 468 484 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 83 76 250 484 ;  
C 173 ; WX 333 ; N guilsinglright ; B 83 76 250 484 ;  
C 174 ; WX 611 ; N fi ; B 10 0 542 727 ;  
C 175 ; WX 611 ; N fl ; B 10 0 542 727 ;  
C 177 ; WX 556 ; N endash ; B 0 227 556 333 ;  
C 178 ; WX 556 ; N dagger ; B 36 -171 520 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 36 -171 520 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 58 172 220 334 ;  
C 182 ; WX 556 ; N paragraph ; B -8 -191 539 700 ;  
C 183 ; WX 350 ; N bullet ; B 10 194 340 524 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 69 -146 209 127 ;  
C 185 ; WX 500 ; N quotedblbase ; B 64 -146 436 127 ;  
C 186 ; WX 500 ; N quotedblright ; B 64 445 436 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 88 76 468 484 ;  
C 188 ; WX 1000 ; N ellipsis ; B 92 0 908 146 ;  
C 189 ; WX 1000 ; N perthousand ; B -3 -19 1003 710 ;  
C 191 ; WX 611 ; N questiondown ; B 55 -195 551 532 ;  
C 193 ; WX 333 ; N grave ; B -23 604 225 750 ;  
C 194 ; WX 333 ; N acute ; B 108 604 356 750 ;  
C 195 ; WX 333 ; N circumflex ; B -10 604 343 750 ;  
C 196 ; WX 333 ; N tilde ; B -17 610 350 737 ;  
C 197 ; WX 333 ; N macron ; B -6 604 339 678 ;  
C 198 ; WX 333 ; N breve ; B -2 604 335 750 ;  
C 199 ; WX 333 ; N dotaccent ; B 104 614 230 729 ;  
C 200 ; WX 333 ; N dieresis ; B 6 614 327 729 ;  
C 202 ; WX 333 ; N ring ; B 59 568 275 776 ;

C 203 ; WX 333 ; N cedilla ; B 6 -228 245 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 9 604 486 750 ;  
C 206 ; WX 333 ; N ogonek ; B 71 -228 304 0 ;  
C 207 ; WX 333 ; N caron ; B -10 604 343 750 ;  
C 208 ; WX 1000 ; N emdash ; B 0 227 1000 333 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 954 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 22 276 347 737 ;  
C 232 ; WX 611 ; N Lslash ; B -20 0 583 718 ;  
C 233 ; WX 778 ; N Oslash ; B 33 -27 744 745 ;  
C 234 ; WX 1000 ; N OE ; B 37 -19 961 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 6 276 360 737 ;  
C 241 ; WX 889 ; N ae ; B 29 -14 858 546 ;  
C 245 ; WX 278 ; N dotlessi ; B 69 0 209 532 ;  
C 248 ; WX 278 ; N lslash ; B -18 0 296 718 ;  
C 249 ; WX 611 ; N oslash ; B 22 -29 589 560 ;  
C 250 ; WX 944 ; N oe ; B 34 -14 912 546 ;  
C 251 ; WX 611 ; N germandbls ; B 69 -14 579 731 ;  
C -1 ; WX 611 ; N Zcaron ; B 25 0 586 936 ;  
C -1 ; WX 556 ; N ccedilla ; B 34 -228 524 546 ;  
C -1 ; WX 556 ; N ydieresis ; B 10 -214 539 729 ;  
C -1 ; WX 556 ; N atilde ; B 29 -14 527 737 ;  
C -1 ; WX 278 ; N icircumflex ; B -37 0 316 750 ;  
C -1 ; WX 333 ; N threesuperior ; B 8 271 326 710 ;  
C -1 ; WX 556 ; N ecircumflex ; B 23 -14 528 750 ;  
C -1 ; WX 611 ; N thorn ; B 62 -208 578 718 ;  
C -1 ; WX 556 ; N egrave ; B 23 -14 528 750 ;  
C -1 ; WX 333 ; N twosuperior ; B 9 283 324 710 ;  
C -1 ; WX 556 ; N eacute ; B 23 -14 528 750 ;  
C -1 ; WX 611 ; N otilde ; B 34 -14 578 737 ;  
C -1 ; WX 722 ; N Aacute ; B 20 0 702 936 ;  
C -1 ; WX 611 ; N ocircumflex ; B 34 -14 578 750 ;  
C -1 ; WX 556 ; N yacute ; B 10 -214 539 750 ;  
C -1 ; WX 611 ; N udieresis ; B 66 -14 545 729 ;  
C -1 ; WX 834 ; N threequarters ; B 16 -19 799 710 ;  
C -1 ; WX 556 ; N acircumflex ; B 29 -14 527 750 ;  
C -1 ; WX 722 ; N Eth ; B -5 0 685 718 ;  
C -1 ; WX 556 ; N edieresis ; B 23 -14 528 729 ;  
C -1 ; WX 611 ; N ugrave ; B 66 -14 545 750 ;  
C -1 ; WX 1000 ; N trademark ; B 44 306 956 718 ;  
C -1 ; WX 611 ; N ograve ; B 34 -14 578 750 ;  
C -1 ; WX 556 ; N scaron ; B 30 -14 519 750 ;  
C -1 ; WX 278 ; N Idieresis ; B -21 0 300 915 ;  
C -1 ; WX 611 ; N uacute ; B 66 -14 545 750 ;  
C -1 ; WX 556 ; N agrave ; B 29 -14 527 750 ;  
C -1 ; WX 611 ; N ntilde ; B 65 0 546 737 ;  
C -1 ; WX 556 ; N aring ; B 29 -14 527 776 ;  
C -1 ; WX 500 ; N zcaron ; B 20 0 480 750 ;  
C -1 ; WX 278 ; N Icircumflex ; B -37 0 316 936 ;

C -1 ; WX 722 ; N Ntilde ; B 69 0 654 923 ;  
C -1 ; WX 611 ; N ucircumflex ; B 66 -14 545 750 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 621 936 ;  
C -1 ; WX 278 ; N Iacute ; B 64 0 329 936 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -228 684 737 ;  
C -1 ; WX 778 ; N Odieresis ; B 44 -19 734 915 ;  
C -1 ; WX 667 ; N Scaron ; B 39 -19 629 936 ;  
C -1 ; WX 667 ; N Edieresis ; B 76 0 621 915 ;  
C -1 ; WX 278 ; N Igrave ; B -50 0 214 936 ;  
C -1 ; WX 556 ; N adieresis ; B 29 -14 527 729 ;  
C -1 ; WX 778 ; N Ograve ; B 44 -19 734 936 ;  
C -1 ; WX 667 ; N Egrave ; B 76 0 621 936 ;  
C -1 ; WX 667 ; N Ydieresis ; B 15 0 653 915 ;  
C -1 ; WX 737 ; N registered ; B -11 -19 748 737 ;  
C -1 ; WX 778 ; N Otilde ; B 44 -19 734 923 ;  
C -1 ; WX 834 ; N onequarter ; B 26 -19 766 710 ;  
C -1 ; WX 722 ; N Ugrave ; B 72 -19 651 936 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 72 -19 651 936 ;  
C -1 ; WX 667 ; N Thorn ; B 76 0 627 718 ;  
C -1 ; WX 584 ; N divide ; B 40 -42 544 548 ;  
C -1 ; WX 722 ; N Atilde ; B 20 0 702 923 ;  
C -1 ; WX 722 ; N Uacute ; B 72 -19 651 936 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 44 -19 734 936 ;  
C -1 ; WX 584 ; N logicalnot ; B 40 108 544 419 ;  
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;  
C -1 ; WX 278 ; N idieresis ; B -21 0 300 729 ;  
C -1 ; WX 278 ; N iacute ; B 69 0 329 750 ;  
C -1 ; WX 556 ; N aacute ; B 29 -14 527 750 ;  
C -1 ; WX 584 ; N plusminus ; B 40 0 544 506 ;  
C -1 ; WX 584 ; N multiply ; B 40 1 545 505 ;  
C -1 ; WX 722 ; N Udieresis ; B 72 -19 651 915 ;  
C -1 ; WX 584 ; N minus ; B 40 197 544 309 ;  
C -1 ; WX 333 ; N onesuperior ; B 26 283 237 710 ;  
C -1 ; WX 667 ; N Eacute ; B 76 0 621 936 ;  
C -1 ; WX 722 ; N Acircumflex ; B 20 0 702 936 ;  
C -1 ; WX 737 ; N copyright ; B -11 -19 749 737 ;  
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;  
C -1 ; WX 611 ; N odieresis ; B 34 -14 578 729 ;  
C -1 ; WX 611 ; N oacute ; B 34 -14 578 750 ;  
C -1 ; WX 400 ; N degree ; B 57 426 343 712 ;  
C -1 ; WX 278 ; N igrave ; B -50 0 209 750 ;  
C -1 ; WX 611 ; N mu ; B 66 -207 545 532 ;  
C -1 ; WX 778 ; N Oacute ; B 44 -19 734 936 ;  
C -1 ; WX 611 ; N eth ; B 34 -14 578 737 ;  
C -1 ; WX 722 ; N Adieresis ; B 20 0 702 915 ;  
C -1 ; WX 667 ; N Yacute ; B 15 0 653 936 ;  
C -1 ; WX 280 ; N brokenbar ; B 84 -19 196 737 ;  
C -1 ; WX 834 ; N onehalf ; B 26 -19 794 710 ;

EndCharMetrics  
StartKernData  
StartKernPairs 209

KPX A y -30  
KPX A w -30  
KPX A v -40  
KPX A u -30  
KPX A Y -110  
KPX A W -60  
KPX A V -80  
KPX A U -50  
KPX A T -90  
KPX A Q -40  
KPX A O -40  
KPX A G -50  
KPX A C -40

KPX B U -10  
KPX B A -30

KPX D period -30  
KPX D comma -30  
KPX D Y -70  
KPX D W -40  
KPX D V -40  
KPX D A -40

KPX F period -100  
KPX F comma -100  
KPX F a -20  
KPX F A -80

KPX J u -20  
KPX J period -20  
KPX J comma -20  
KPX J A -20

KPX K y -40  
KPX K u -30  
KPX K o -35  
KPX K e -15  
KPX K O -30

KPX L y -30  
KPX L quoteright -140  
KPX L quotedblright -140  
KPX L Y -120

KPX L W -80  
KPX L V -110  
KPX L T -90

KPX O period -40  
KPX O comma -40  
KPX O Y -70  
KPX O X -50  
KPX O W -50  
KPX O V -50  
KPX O T -40  
KPX O A -50

KPX P period -120  
KPX P o -40  
KPX P e -30  
KPX P comma -120  
KPX P a -30  
KPX P A -100

KPX Q period 20  
KPX Q comma 20  
KPX Q U -10

KPX R Y -50  
KPX R W -40  
KPX R V -50  
KPX R U -20  
KPX R T -20  
KPX R O -20

KPX T y -60  
KPX T w -60  
KPX T u -90  
KPX T semicolon -40  
KPX T r -80  
KPX T period -80  
KPX T o -80  
KPX T hyphen -120  
KPX T e -60  
KPX T comma -80  
KPX T colon -40  
KPX T a -80  
KPX T O -40  
KPX T A -90

KPX U period -30  
KPX U comma -30



KPX U A -50

KPX V u -60

KPX V semicolon -40

KPX V period -120

KPX V o -90

KPX V hyphen -80

KPX V e -50

KPX V comma -120

KPX V colon -40

KPX V a -60

KPX V O -50

KPX V G -50

KPX V A -80

KPX W y -20

KPX W u -45

KPX W semicolon -10

KPX W period -80

KPX W o -60

KPX W hyphen -40

KPX W e -35

KPX W comma -80

KPX W colon -10

KPX W a -40

KPX W O -20

KPX W A -60

KPX Y u -100

KPX Y semicolon -50

KPX Y period -100

KPX Y o -100

KPX Y e -80

KPX Y comma -100

KPX Y colon -50

KPX Y a -90

KPX Y O -70

KPX Y A -110

KPX a y -20

KPX a w -15

KPX a v -15

KPX a g -10

KPX b y -20

KPX b v -20

KPX b u -20

KPX b l -10

KPX c y -10  
KPX c l -20  
KPX c k -20  
KPX c h -10

KPX colon space -40

KPX comma space -40  
KPX comma quoteright -120  
KPX comma quotedblright -120

KPX d y -15  
KPX d w -15  
KPX d v -15  
KPX d d -10

KPX e y -15  
KPX e x -15  
KPX e w -15  
KPX e v -15  
KPX e period 20  
KPX e comma 10

KPX f quoteright 30  
KPX f quotedblright 30  
KPX f period -10  
KPX f o -20  
KPX f e -10  
KPX f comma -10

KPX g g -10  
KPX g e 10

KPX h y -20

KPX k o -15

KPX l y -15  
KPX l w -15

KPX m y -30  
KPX m u -20

KPX n y -20  
KPX n v -40  
KPX n u -10

KPX o y -20

KPX o x -30

KPX o w -15

KPX o v -20

KPX p y -15

KPX period space -40

KPX period quoteright -120

KPX period quotedblright -120

KPX quotedblright space -80

KPX quoteleft quoteleft -46

KPX quoteright v -20

KPX quoteright space -80

KPX quoteright s -60

KPX quoteright r -40

KPX quoteright quoteright -46

KPX quoteright l -20

KPX quoteright d -80

KPX r y 10

KPX r v 10

KPX r t 20

KPX r s -15

KPX r q -20

KPX r period -60

KPX r o -20

KPX r hyphen -20

KPX r g -15

KPX r d -20

KPX r comma -60

KPX r c -20

KPX s w -15

KPX semicolon space -40

KPX space quoteleft -60

KPX space quotedblleft -80

KPX space Y -120

KPX space W -80

KPX space V -80

KPX space T -100

KPX v period -80

KPX v o -30  
KPX v comma -80  
KPX v a -20

KPX w period -40  
KPX w o -20  
KPX w comma -40

KPX x e -10

KPX y period -80  
KPX y o -25  
KPX y e -10  
KPX y comma -80  
KPX y a -30

KPX z e 10  
EndKernPairs  
EndKernData  
StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 186 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 186 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 186 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 186 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 195 186 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 186 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 167 186 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 167 186 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 167 186 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 186 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute -27 186 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -27 186 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -27 186 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 186 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 186 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 186 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 186 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 186 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 186 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 186 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 167 186 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 186 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 186 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 195 186 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 186 ;  
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 167 186 ;  
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 167 186 ;

CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 186 ;  
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;  
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;  
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;  
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;  
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;  
CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 0 ;  
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 132 0 ;  
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;  
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;  
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;  
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;  
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;  
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;  
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;  
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;  
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;  
CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;  
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;  
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;  
CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;  
CC otilde 2 ; PCC o 0 0 ; PCC tilde 139 0 ;  
CC scaron 2 ; PCC s 0 0 ; PCC caron 112 0 ;  
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;  
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;  
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;  
CC ugrave 2 ; PCC u 0 0 ; PCC grave 139 0 ;  
CC yacute 2 ; PCC y 0 0 ; PCC acute 112 0 ;  
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 0 ;  
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 0 ;  
EndComposites  
EndFontMetrics  
StartFontMetrics 2.0  
Comment Copyright (c) 1989, 1990, 1991, Adobe Systems Incorporated. All rights reserved.  
Comment Creation Date: Tue Sep 17 14:13:24 1991  
Comment UniqueID 36389  
Comment VMusage 10055 54684  
FontName Courier-BoldOblique  
FullName Courier Bold Oblique  
FamilyName Courier  
Weight Bold  
ItalicAngle -12  
IsFixedPitch true  
FontBBox -56 -250 868 801  
UnderlinePosition -100  
UnderlineThickness 50  
Version 002.004  
Notice Copyright (c) 1989, 1990, 1991, Adobe Systems Incorporated. All rights reserved.

EncodingScheme AdobeStandardEncoding  
CapHeight 562  
XHeight 439  
Ascender 626  
Descender -142  
StartCharMetrics 260  
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 600 ; N exclam ; B 216 -15 495 572 ;  
C 34 ; WX 600 ; N quotedbl ; B 212 277 584 562 ;  
C 35 ; WX 600 ; N numbersign ; B 88 -45 640 651 ;  
C 36 ; WX 600 ; N dollar ; B 87 -126 629 666 ;  
C 37 ; WX 600 ; N percent ; B 102 -15 624 616 ;  
C 38 ; WX 600 ; N ampersand ; B 62 -15 594 543 ;  
C 39 ; WX 600 ; N quoteright ; B 230 277 542 562 ;  
C 40 ; WX 600 ; N parenleft ; B 266 -102 592 616 ;  
C 41 ; WX 600 ; N parenright ; B 117 -102 444 616 ;  
C 42 ; WX 600 ; N asterisk ; B 179 219 597 601 ;  
C 43 ; WX 600 ; N plus ; B 114 39 596 478 ;  
C 44 ; WX 600 ; N comma ; B 99 -111 430 174 ;  
C 45 ; WX 600 ; N hyphen ; B 143 203 567 313 ;  
C 46 ; WX 600 ; N period ; B 207 -15 426 171 ;  
C 47 ; WX 600 ; N slash ; B 91 -77 626 626 ;  
C 48 ; WX 600 ; N zero ; B 136 -15 592 616 ;  
C 49 ; WX 600 ; N one ; B 93 0 561 616 ;  
C 50 ; WX 600 ; N two ; B 61 0 593 616 ;  
C 51 ; WX 600 ; N three ; B 72 -15 571 616 ;  
C 52 ; WX 600 ; N four ; B 82 0 558 616 ;  
C 53 ; WX 600 ; N five ; B 77 -15 621 601 ;  
C 54 ; WX 600 ; N six ; B 136 -15 652 616 ;  
C 55 ; WX 600 ; N seven ; B 147 0 622 601 ;  
C 56 ; WX 600 ; N eight ; B 115 -15 604 616 ;  
C 57 ; WX 600 ; N nine ; B 76 -15 592 616 ;  
C 58 ; WX 600 ; N colon ; B 206 -15 479 425 ;  
C 59 ; WX 600 ; N semicolon ; B 99 -111 480 425 ;  
C 60 ; WX 600 ; N less ; B 121 15 612 501 ;  
C 61 ; WX 600 ; N equal ; B 96 118 614 398 ;  
C 62 ; WX 600 ; N greater ; B 97 15 589 501 ;  
C 63 ; WX 600 ; N question ; B 183 -14 591 580 ;  
C 64 ; WX 600 ; N at ; B 66 -15 641 616 ;  
C 65 ; WX 600 ; N A ; B -9 0 631 562 ;  
C 66 ; WX 600 ; N B ; B 30 0 629 562 ;  
C 67 ; WX 600 ; N C ; B 75 -18 674 580 ;  
C 68 ; WX 600 ; N D ; B 30 0 664 562 ;  
C 69 ; WX 600 ; N E ; B 25 0 669 562 ;  
C 70 ; WX 600 ; N F ; B 39 0 683 562 ;  
C 71 ; WX 600 ; N G ; B 75 -18 674 580 ;  
C 72 ; WX 600 ; N H ; B 20 0 699 562 ;  
C 73 ; WX 600 ; N I ; B 77 0 642 562 ;

C 74 ; WX 600 ; N J ; B 59 -18 720 562 ;  
C 75 ; WX 600 ; N K ; B 21 0 691 562 ;  
C 76 ; WX 600 ; N L ; B 39 0 635 562 ;  
C 77 ; WX 600 ; N M ; B -2 0 721 562 ;  
C 78 ; WX 600 ; N N ; B 8 -12 729 562 ;  
C 79 ; WX 600 ; N O ; B 74 -18 645 580 ;  
C 80 ; WX 600 ; N P ; B 48 0 642 562 ;  
C 81 ; WX 600 ; N Q ; B 84 -138 636 580 ;  
C 82 ; WX 600 ; N R ; B 24 0 617 562 ;  
C 83 ; WX 600 ; N S ; B 54 -22 672 582 ;  
C 84 ; WX 600 ; N T ; B 86 0 678 562 ;  
C 85 ; WX 600 ; N U ; B 101 -18 715 562 ;  
C 86 ; WX 600 ; N V ; B 84 0 732 562 ;  
C 87 ; WX 600 ; N W ; B 84 0 737 562 ;  
C 88 ; WX 600 ; N X ; B 12 0 689 562 ;  
C 89 ; WX 600 ; N Y ; B 109 0 708 562 ;  
C 90 ; WX 600 ; N Z ; B 62 0 636 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 223 -102 606 616 ;  
C 92 ; WX 600 ; N backslash ; B 223 -77 496 626 ;  
C 93 ; WX 600 ; N bracketright ; B 103 -102 486 616 ;  
C 94 ; WX 600 ; N asciicircum ; B 171 250 555 616 ;  
C 95 ; WX 600 ; N underscore ; B -27 -125 584 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 297 277 487 562 ;  
C 97 ; WX 600 ; N a ; B 62 -15 592 454 ;  
C 98 ; WX 600 ; N b ; B 13 -15 636 626 ;  
C 99 ; WX 600 ; N c ; B 81 -15 631 459 ;  
C 100 ; WX 600 ; N d ; B 61 -15 644 626 ;  
C 101 ; WX 600 ; N e ; B 81 -15 604 454 ;  
C 102 ; WX 600 ; N f ; B 83 0 677 626 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 41 -146 673 454 ;  
C 104 ; WX 600 ; N h ; B 18 0 614 626 ;  
C 105 ; WX 600 ; N i ; B 77 0 545 658 ;  
C 106 ; WX 600 ; N j ; B 37 -146 580 658 ;  
C 107 ; WX 600 ; N k ; B 33 0 642 626 ;  
C 108 ; WX 600 ; N l ; B 77 0 545 626 ;  
C 109 ; WX 600 ; N m ; B -22 0 648 454 ;  
C 110 ; WX 600 ; N n ; B 18 0 614 454 ;  
C 111 ; WX 600 ; N o ; B 71 -15 622 454 ;  
C 112 ; WX 600 ; N p ; B -31 -142 622 454 ;  
C 113 ; WX 600 ; N q ; B 61 -142 684 454 ;  
C 114 ; WX 600 ; N r ; B 47 0 654 454 ;  
C 115 ; WX 600 ; N s ; B 67 -17 607 459 ;  
C 116 ; WX 600 ; N t ; B 118 -15 566 562 ;  
C 117 ; WX 600 ; N u ; B 70 -15 591 439 ;  
C 118 ; WX 600 ; N v ; B 70 0 694 439 ;  
C 119 ; WX 600 ; N w ; B 53 0 711 439 ;  
C 120 ; WX 600 ; N x ; B 6 0 670 439 ;  
C 121 ; WX 600 ; N y ; B -20 -142 694 439 ;

C 122 ; WX 600 ; N z ; B 81 0 613 439 ;  
C 123 ; WX 600 ; N braceleft ; B 204 -102 595 616 ;  
C 124 ; WX 600 ; N bar ; B 202 -250 504 750 ;  
C 125 ; WX 600 ; N braceright ; B 114 -102 506 616 ;  
C 126 ; WX 600 ; N asciitilde ; B 120 153 589 356 ;  
C 161 ; WX 600 ; N exclamdown ; B 197 -146 477 449 ;  
C 162 ; WX 600 ; N cent ; B 121 -49 604 614 ;  
C 163 ; WX 600 ; N sterling ; B 107 -28 650 611 ;  
C 164 ; WX 600 ; N fraction ; B 22 -60 707 661 ;  
C 165 ; WX 600 ; N yen ; B 98 0 709 562 ;  
C 166 ; WX 600 ; N florin ; B -56 -131 701 616 ;  
C 167 ; WX 600 ; N section ; B 74 -70 619 580 ;  
C 168 ; WX 600 ; N currency ; B 77 49 643 517 ;  
C 169 ; WX 600 ; N quotesingle ; B 304 277 492 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 190 277 594 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 63 70 638 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 196 70 544 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 166 70 514 446 ;  
C 174 ; WX 600 ; N fi ; B 12 0 643 626 ;  
C 175 ; WX 600 ; N fl ; B 12 0 643 626 ;  
C 177 ; WX 600 ; N endash ; B 108 203 602 313 ;  
C 178 ; WX 600 ; N dagger ; B 176 -70 586 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 122 -70 586 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 249 165 461 351 ;  
C 182 ; WX 600 ; N paragraph ; B 61 -70 699 580 ;  
C 183 ; WX 600 ; N bullet ; B 197 132 523 430 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 145 -142 457 143 ;  
C 185 ; WX 600 ; N quotedblbase ; B 35 -142 559 143 ;  
C 186 ; WX 600 ; N quotedblright ; B 120 277 644 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 72 70 647 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 35 -15 586 116 ;  
C 189 ; WX 600 ; N perthousand ; B -44 -15 742 616 ;  
C 191 ; WX 600 ; N questiondown ; B 101 -146 509 449 ;  
C 193 ; WX 600 ; N grave ; B 272 508 503 661 ;  
C 194 ; WX 600 ; N acute ; B 313 508 608 661 ;  
C 195 ; WX 600 ; N circumflex ; B 212 483 606 657 ;  
C 196 ; WX 600 ; N tilde ; B 200 493 642 636 ;  
C 197 ; WX 600 ; N macron ; B 195 505 636 585 ;  
C 198 ; WX 600 ; N breve ; B 217 468 651 631 ;  
C 199 ; WX 600 ; N dotaccent ; B 346 485 490 625 ;  
C 200 ; WX 600 ; N dieresis ; B 244 485 592 625 ;  
C 202 ; WX 600 ; N ring ; B 319 481 528 678 ;  
C 203 ; WX 600 ; N cedilla ; B 169 -206 367 0 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 172 488 728 661 ;  
C 206 ; WX 600 ; N ogonek ; B 144 -199 350 0 ;  
C 207 ; WX 600 ; N caron ; B 238 493 632 667 ;  
C 208 ; WX 600 ; N emdash ; B 33 203 677 313 ;  
C 225 ; WX 600 ; N AE ; B -29 0 707 562 ;



C 227 ; WX 600 ; N ordfeminine ; B 189 196 526 580 ;  
C 232 ; WX 600 ; N Lslash ; B 39 0 635 562 ;  
C 233 ; WX 600 ; N Oslash ; B 48 -22 672 584 ;  
C 234 ; WX 600 ; N OE ; B 26 0 700 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 189 196 542 580 ;  
C 241 ; WX 600 ; N ae ; B 21 -15 651 454 ;  
C 245 ; WX 600 ; N dotlessi ; B 77 0 545 439 ;  
C 248 ; WX 600 ; N lslash ; B 77 0 578 626 ;  
C 249 ; WX 600 ; N oslash ; B 55 -24 637 463 ;  
C 250 ; WX 600 ; N oe ; B 19 -15 661 454 ;  
C 251 ; WX 600 ; N germandbls ; B 22 -15 628 626 ;  
C -1 ; WX 600 ; N Odieresis ; B 74 -18 645 748 ;  
C -1 ; WX 600 ; N logicalnot ; B 135 103 617 413 ;  
C -1 ; WX 600 ; N minus ; B 114 203 596 313 ;  
C -1 ; WX 600 ; N merge ; B 168 -15 533 487 ;  
C -1 ; WX 600 ; N degree ; B 173 243 569 616 ;  
C -1 ; WX 600 ; N dectab ; B 8 0 615 320 ;  
C -1 ; WX 600 ; N ll ; B 1 0 653 626 ;  
C -1 ; WX 600 ; N IJ ; B -8 -18 741 562 ;  
C -1 ; WX 600 ; N Eacute ; B 25 0 669 784 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 74 -18 645 780 ;  
C -1 ; WX 600 ; N ucircumflex ; B 70 -15 591 657 ;  
C -1 ; WX 600 ; N left ; B 109 44 589 371 ;  
C -1 ; WX 600 ; N threesuperior ; B 193 222 525 616 ;  
C -1 ; WX 600 ; N up ; B 196 0 523 447 ;  
C -1 ; WX 600 ; N multiply ; B 105 39 606 478 ;  
C -1 ; WX 600 ; N Scaron ; B 54 -22 672 790 ;  
C -1 ; WX 600 ; N tab ; B 19 0 641 562 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 101 -18 715 780 ;  
C -1 ; WX 600 ; N divide ; B 114 16 596 500 ;  
C -1 ; WX 600 ; N Acircumflex ; B -9 0 631 780 ;  
C -1 ; WX 600 ; N eacute ; B 81 -15 608 661 ;  
C -1 ; WX 600 ; N uacute ; B 70 -15 608 661 ;  
C -1 ; WX 600 ; N Aacute ; B -9 0 665 784 ;  
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N twosuperior ; B 192 230 541 616 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 25 0 669 780 ;  
C -1 ; WX 600 ; N ntilde ; B 18 0 642 636 ;  
C -1 ; WX 600 ; N down ; B 168 -15 496 439 ;  
C -1 ; WX 600 ; N center ; B 103 14 623 580 ;  
C -1 ; WX 600 ; N onesuperior ; B 213 230 514 616 ;  
C -1 ; WX 600 ; N ij ; B 6 -146 714 658 ;  
C -1 ; WX 600 ; N edieresis ; B 81 -15 604 625 ;  
C -1 ; WX 600 ; N graybox ; B 76 0 652 599 ;  
C -1 ; WX 600 ; N odieresis ; B 71 -15 622 625 ;  
C -1 ; WX 600 ; N Ograve ; B 74 -18 645 784 ;  
C -1 ; WX 600 ; N threequarters ; B 8 -60 698 661 ;  
C -1 ; WX 600 ; N plusminus ; B 76 24 614 515 ;

C -1 ; WX 600 ; N prescription ; B 24 -15 632 562 ;  
C -1 ; WX 600 ; N eth ; B 93 -27 661 626 ;  
C -1 ; WX 600 ; N largebullet ; B 307 229 413 333 ;  
C -1 ; WX 600 ; N egrave ; B 81 -15 604 661 ;  
C -1 ; WX 600 ; N ccedilla ; B 81 -206 631 459 ;  
C -1 ; WX 600 ; N notegraphic ; B 91 -15 619 572 ;  
C -1 ; WX 600 ; N Udieresis ; B 101 -18 715 748 ;  
C -1 ; WX 600 ; N Gcaron ; B 75 -18 674 790 ;  
C -1 ; WX 600 ; N arrowdown ; B 174 -15 486 608 ;  
C -1 ; WX 600 ; N format ; B -26 -146 243 601 ;  
C -1 ; WX 600 ; N Otilde ; B 74 -18 668 759 ;  
C -1 ; WX 600 ; N Idieresis ; B 77 0 642 748 ;  
C -1 ; WX 600 ; N adieresis ; B 62 -15 592 625 ;  
C -1 ; WX 600 ; N ecircumflex ; B 81 -15 606 657 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 664 562 ;  
C -1 ; WX 600 ; N onequarter ; B 14 -60 706 661 ;  
C -1 ; WX 600 ; N LL ; B -45 0 694 562 ;  
C -1 ; WX 600 ; N agrave ; B 62 -15 592 661 ;  
C -1 ; WX 600 ; N Zcaron ; B 62 0 659 790 ;  
C -1 ; WX 600 ; N Scedilla ; B 54 -206 672 582 ;  
C -1 ; WX 600 ; N Idot ; B 77 0 642 748 ;  
C -1 ; WX 600 ; N Iacute ; B 77 0 642 784 ;  
C -1 ; WX 600 ; N indent ; B 99 45 579 372 ;  
C -1 ; WX 600 ; N Ugrave ; B 101 -18 715 784 ;  
C -1 ; WX 600 ; N scaron ; B 67 -17 632 667 ;  
C -1 ; WX 600 ; N overscore ; B 123 579 734 629 ;  
C -1 ; WX 600 ; N Aring ; B -9 0 631 801 ;  
C -1 ; WX 600 ; N Ccedilla ; B 74 -206 674 580 ;  
C -1 ; WX 600 ; N Igrave ; B 77 0 642 784 ;  
C -1 ; WX 600 ; N brokenbar ; B 218 -175 488 675 ;  
C -1 ; WX 600 ; N Oacute ; B 74 -18 645 784 ;  
C -1 ; WX 600 ; N otilde ; B 71 -15 642 636 ;  
C -1 ; WX 600 ; N Yacute ; B 109 0 708 784 ;  
C -1 ; WX 600 ; N lira ; B 107 -28 650 611 ;  
C -1 ; WX 600 ; N Icircumflex ; B 77 0 642 780 ;  
C -1 ; WX 600 ; N Atilde ; B -9 0 638 759 ;  
C -1 ; WX 600 ; N Uacute ; B 101 -18 715 784 ;  
C -1 ; WX 600 ; N Ydieresis ; B 109 0 708 748 ;  
C -1 ; WX 600 ; N ydieresis ; B -20 -142 694 625 ;  
C -1 ; WX 600 ; N idieresis ; B 77 0 552 625 ;  
C -1 ; WX 600 ; N Adieresis ; B -9 0 631 748 ;  
C -1 ; WX 600 ; N mu ; B 50 -142 591 439 ;  
C -1 ; WX 600 ; N trademark ; B 86 230 868 562 ;  
C -1 ; WX 600 ; N oacute ; B 71 -15 622 661 ;  
C -1 ; WX 600 ; N acircumflex ; B 62 -15 592 657 ;  
C -1 ; WX 600 ; N Agrave ; B -9 0 631 784 ;  
C -1 ; WX 600 ; N return ; B 79 0 700 562 ;  
C -1 ; WX 600 ; N atilde ; B 62 -15 642 636 ;

C -1 ; WX 600 ; N square ; B 19 0 700 562 ;  
C -1 ; WX 600 ; N registered ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N stop ; B 19 0 700 562 ;  
C -1 ; WX 600 ; N udieresis ; B 70 -15 591 625 ;  
C -1 ; WX 600 ; N arrowup ; B 244 3 556 626 ;  
C -1 ; WX 600 ; N igrave ; B 77 0 545 661 ;  
C -1 ; WX 600 ; N Edieresis ; B 25 0 669 748 ;  
C -1 ; WX 600 ; N zcaron ; B 81 0 632 667 ;  
C -1 ; WX 600 ; N arrowboth ; B 40 143 688 455 ;  
C -1 ; WX 600 ; N gcaron ; B 41 -146 673 667 ;  
C -1 ; WX 600 ; N arrowleft ; B 40 143 708 455 ;  
C -1 ; WX 600 ; N aacute ; B 62 -15 608 661 ;  
C -1 ; WX 600 ; N ocircumflex ; B 71 -15 622 657 ;  
C -1 ; WX 600 ; N scedilla ; B 67 -206 607 459 ;  
C -1 ; WX 600 ; N ograve ; B 71 -15 622 661 ;  
C -1 ; WX 600 ; N onehalf ; B 23 -60 715 661 ;  
C -1 ; WX 600 ; N ugrave ; B 70 -15 591 661 ;  
C -1 ; WX 600 ; N Ntilde ; B 8 -12 729 759 ;  
C -1 ; WX 600 ; N iacute ; B 77 0 608 661 ;  
C -1 ; WX 600 ; N arrowright ; B 20 143 688 455 ;  
C -1 ; WX 600 ; N Thorn ; B 48 0 619 562 ;  
C -1 ; WX 600 ; N Egrave ; B 25 0 669 784 ;  
C -1 ; WX 600 ; N thorn ; B -31 -142 622 626 ;  
C -1 ; WX 600 ; N aring ; B 62 -15 592 678 ;  
C -1 ; WX 600 ; N yacute ; B -20 -142 694 661 ;  
C -1 ; WX 600 ; N icircumflex ; B 77 0 566 657 ;

EndCharMetrics

StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 56 123 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex -4 123 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 6 123 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave -24 123 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 16 123 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde -4 123 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 56 123 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 26 123 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 26 123 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 26 123 ;  
CC Gcaron 2 ; PCC G 0 0 ; PCC caron 36 123 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 26 123 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 26 123 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 26 123 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 26 123 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 26 123 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 26 123 ;  
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 26 123 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 26 123 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 26 123 ;

CC Otilde 2 ; PCC O 0 0 ; PCC tilde 26 123 ;  
 CC Scaron 2 ; PCC S 0 0 ; PCC caron 26 123 ;  
 CC Uacute 2 ; PCC U 0 0 ; PCC acute 56 123 ;  
 CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 26 123 ;  
 CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 26 123 ;  
 CC Ugrave 2 ; PCC U 0 0 ; PCC grave -4 123 ;  
 CC Yacute 2 ; PCC Y 0 0 ; PCC acute 56 123 ;  
 CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 26 123 ;  
 CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 26 123 ;  
 CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;  
 CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex -20 0 ;  
 CC adieresis 2 ; PCC a 0 0 ; PCC dieresis -10 0 ;  
 CC agrave 2 ; PCC a 0 0 ; PCC grave -30 0 ;  
 CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;  
 CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;  
 CC eacute 2 ; PCC e 0 0 ; PCC acute 0 0 ;  
 CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;  
 CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 0 0 ;  
 CC egrave 2 ; PCC e 0 0 ; PCC grave 0 0 ;  
 CC gcaron 2 ; PCC g 0 0 ; PCC caron -40 0 ;  
 CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;  
 CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -40 0 ;  
 CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -40 0 ;  
 CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 0 ;  
 CC ntilde 2 ; PCC n 0 0 ; PCC tilde 0 0 ;  
 CC oacute 2 ; PCC o 0 0 ; PCC acute 0 0 ;  
 CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 0 0 ;  
 CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 0 0 ;  
 CC ograve 2 ; PCC o 0 0 ; PCC grave 0 0 ;  
 CC otilde 2 ; PCC o 0 0 ; PCC tilde 0 0 ;  
 CC scaron 2 ; PCC s 0 0 ; PCC caron 0 0 ;  
 CC uacute 2 ; PCC u 0 0 ; PCC acute 0 0 ;  
 CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -20 0 ;  
 CC udieresis 2 ; PCC u 0 0 ; PCC dieresis -20 0 ;  
 CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;  
 CC yacute 2 ; PCC y 0 0 ; PCC acute 30 0 ;  
 CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 10 0 ;  
 CC zcaron 2 ; PCC z 0 0 ; PCC caron 0 0 ;

EndComposites

EndFontMetrics

The STIX fonts distributed with matplotlib have been modified from their canonical form. They have been converted from OTF to TTF format using Fontforge and this script:

```
#!/usr/bin/env fontforge
```

```
i=1
```

```
while ( i<$argc )
```

```
  Open($argv[i])
```

```
Generate($argv[i]:r + ".ttf")
i = i+1
endloop
```

The original STIX Font License begins below.

-----  
STIX Font License

24 May 2010

Copyright (c) 2001-2010 by the STI Pub Companies, consisting of the American Institute of Physics, the American Chemical Society, the American Mathematical Society, the American Physical Society, Elsevier, Inc., and The Institute of Electrical and Electronic Engineers, Inc. ([www.stixfonts.org](http://www.stixfonts.org)), with Reserved Font Name STIX Fonts, STIX Fonts (TM) is a trademark of The Institute of Electrical and Electronics Engineers, Inc.

Portions copyright (c) 1998-2003 by MicroPress, Inc. ([www.micropress-inc.com](http://www.micropress-inc.com)), with Reserved Font Name TM Math. To obtain additional mathematical fonts, please contact MicroPress, Inc., 68-30 Harrow Street, Forest Hills, NY 11375, USA, Phone: (718) 575-1816.

Portions copyright (c) 1990 by Elsevier, Inc.

This Font Software is licensed under the SIL Open Font License, Version 1.1. This license is copied below, and is also available with a FAQ at: <http://scripts.sil.org/OFL>

-----  
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007  
-----

#### PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply

to any document created using the fonts or their derivatives.

## DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

## PERMISSION & CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

- 1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
- 2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
- 3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.
- 4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

#### TERMINATION

This license becomes null and void if any of the above conditions are not met.

#### DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Bitstream Vera Fonts Copyright

The fonts have a generous copyright, allowing derivative works (as long as "Bitstream" or "Vera" are not in the names), and full redistribution (so long as they are not \*sold\* by themselves). They can be bundled, redistributed and sold with any software.

The fonts are distributed under the following copyright:

Copyright

=====

Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera is a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in

particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Bitstream" or the word "Vera".

This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Bitstream Vera" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the names of Gnome, the Gnome Foundation, and Bitstream Inc., shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from the Gnome Foundation or Bitstream Inc., respectively. For further information, contact: fonts at gnome dot org.

#### Copyright FAQ

=====

##### 1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

##### 2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves.

See 1. above.



3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

Contained herein is the Bitstream Vera font family.

The Copyright information is found in the COPYRIGHT.TXT file (along with being incorporated into the fonts themselves).

The releases notes are found in the file "RELEASENOTES.TXT".

We hope you enjoy Vera!

Bitstream, Inc.

The Gnome Project

Bitstream Vera Fonts - April 16, 2003

=====

The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera's accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see [www.fontconfig.org](http://www.fontconfig.org)) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans, serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will make the Bitstream fonts your default fonts for all applications using fontconfig (if sans, serif, or monospace names are used, as they often are as default values in many desktops). The XML in local.conf may need modification to enable subpixel decimation, if appropriate, however, the commented out phrase does so for XFree86 4.3, in the case that the server does not have sufficient information to identify the use of a flat panel. Fontconfig 2.2 adds Vera to the list of font families and will, by default use it as the default sans, serif and

monospace fonts.

During the testing of the final Vera fonts, we learned that screen fonts in general are only typically hinted to work correctly at integer pixel sizes. Vera is coded internally for integer sizes only. We need to investigate further to see if there are commonly used fonts that are hinted to be rounded but are not rounded to integer sizes due to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as the amount of work required to hint well at smaller and smaller sizes becomes astronomical. GASP tables are typically used to control whether hinting is used or not, but Freetype/Xft does not currently support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be (very shortly) a new fontconfig 2.2 release that will, by default not apply hints if the size is below 8 pixels. if you should have a font that in fact has been hinted more aggressively, you can use fontconfig to note this exception. We believe this should improve many hinted fonts in addition to Vera, though implementing GASP support is likely the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in Xft2 and Freetype, along with hinting in the fonts themselves. It is vital to have sufficient information to disentangle problems that you may observe.

Note that having your font rendering system set up correctly is vital to proper judgement of problems of the fonts:

- \* Freetype may or may not be configured to in ways that may implement execution of possibly patented (in some parts of the world) TrueType hinting algorithms, particularly at small sizes. Best results are obtained while using these algorithms.
- \* The freetype autohinter (used when the possibly patented algorithms are not used) continues to improve with each release. If you are using the autohinter, please ensure you are using an up to date version of freetype before reporting problems.
- \* Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.
- \* Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts, including Vera. if you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I

did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd' can be used to see which freetype shared library is actually being used.

\* Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a white background. The program "xgamma" can be used to set a gamma correction value in the X server's color palette. Most monitors have a gamma near 2.

\* Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustments, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.

\* Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and 'O' and '1' and 'l' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f" can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g., "xfd -fa sans"). A possibly more useful program to examine fonts at a variety of sizes is the "waterfall" program found in Keith Packard's CVS.

```
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS login
Logging in to :pserver:anoncvs@keithp.com:2401/local/src/CVS
CVS password: <hit return>
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS co waterfall
$ cd waterfall
$ xmkmf -a
$ make
# make install
# make install.man
```

Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

### Reporting Problems

=====

Please send problem reports to fonts at gnome org, with the following information:

1. Version of Freetype, Xft2 and fontconfig
2. Whether TT hinting is being used, or the autohinter
3. Application being used
4. Character/Unicode code point that has problems (if applicable)
5. Version of which operating system
6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

```
<?xml version="1.0" standalone="no"?> <!--*- mode: xml -*-->
<!DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">
```

```
<glade-interface>
```

```
<widget class="GtkDialog" id="dialog_lineprops">
  <property name="visible">True</property>
  <property name="title" translatable="yes">Line Properties</property>
  <property name="type">GTK_WINDOW_TOPLEVEL</property>
  <property name="window_position">GTK_WIN_POS_NONE</property>
  <property name="modal">False</property>
  <property name="resizable">True</property>
  <property name="destroy_with_parent">False</property>
  <property name="decorated">True</property>
  <property name="skip_taskbar_hint">False</property>
  <property name="skip_pager_hint">False</property>
  <property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
  <property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
  <property name="has_separator">True</property>
```

```

<child internal-child="vbox">
  <widget class="GtkVBox" id="dialog-vbox2">
    <property name="visible">True</property>
    <property name="homogeneous">False</property>
    <property name="spacing">0</property>

    <child internal-child="action_area">
<widget class="GtkHButtonBox" id="dialog-action_area2">
  <property name="visible">True</property>
  <property name="layout_style">GTK_BUTTONBOX_END</property>

<child>
  <widget class="GtkButton" id="dialog_lineprops_cancelbutton">
    <property name="visible">True</property>
    <property name="can_default">True</property>
    <property name="can_focus">True</property>
    <property name="label">gtk-cancel</property>
    <property name="use_stock">True</property>
    <property name="relief">GTK_RELIEF_NORMAL</property>
    <property name="focus_on_click">True</property>
    <property name="response_id">-6</property>
    <signal name="clicked" handler="on_dialog_lineprops_cancelbutton_clicked" last_modification_time="Mon,
07 Nov 2005 20:52:05 GMT"/>
  </widget>
</child>

<child>
  <widget class="GtkButton" id="dialog_lineprops_okbutton">
    <property name="visible">True</property>
    <property name="can_default">True</property>
    <property name="can_focus">True</property>
    <property name="label">gtk-ok</property>
    <property name="use_stock">True</property>
    <property name="relief">GTK_RELIEF_NORMAL</property>
    <property name="focus_on_click">True</property>
    <property name="response_id">-5</property>
    <signal name="clicked" handler="on_dialog_lineprops_okbutton_clicked" last_modification_time="Mon, 07
Nov 2005 20:51:43 GMT"/>
  </widget>
</child>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">False</property>
  <property name="fill">True</property>
  <property name="pack_type">GTK_PACK_END</property>
</packing>

```

```

</child>

<child>
<widget class="GtkVBox" id="vbox_lineprops">
<property name="visible">True</property>
<property name="homogeneous">False</property>
<property name="spacing">0</property>

<child>
<widget class="GtkComboBox" id="combobox_lineprops">
<property name="visible">True</property>
<property name="items" translatable="yes"></property>
<signal name="changed" handler="on_combobox_lineprops_changed" last_modification_time="Mon, 07 Nov
2005 20:40:07 GMT"/>
</widget>
<packing>
<property name="padding">0</property>
<property name="expand">True</property>
<property name="fill">True</property>
</packing>
</child>

<child>
<widget class="GtkFrame" id="frame6">
<property name="visible">True</property>
<property name="label_xalign">0</property>
<property name="label_yalign">0.5</property>
<property name="shadow_type">GTK_SHADOW_NONE</property>

<child>
<widget class="GtkAlignment" id="alignment9">
<property name="visible">True</property>
<property name="xalign">0.5</property>
<property name="yalign">0.5</property>
<property name="xscale">1</property>
<property name="yscale">1</property>
<property name="top_padding">0</property>
<property name="bottom_padding">0</property>
<property name="left_padding">12</property>
<property name="right_padding">0</property>

<child>
<widget class="GtkVBox" id="vbox5">
<property name="visible">True</property>
<property name="homogeneous">False</property>
<property name="spacing">0</property>

<child>

```

```

<widget class="GtkTable" id="table_lineprops">
  <property name="visible">True</property>
  <property name="n_rows">2</property>
  <property name="n_columns">3</property>
  <property name="homogeneous">False</property>
  <property name="row_spacing">0</property>
  <property name="column_spacing">0</property>

  <child>
    <widget class="GtkLabel" id="label11">
      <property name="visible">True</property>
      <property name="label" translatable="yes">Marker</property>
      <property name="use_underline">False</property>
      <property name="use_markup">False</property>
      <property name="justify">GTK_JUSTIFY_LEFT</property>
      <property name="wrap">False</property>
      <property name="selectable">False</property>
      <property name="xalign">0.5</property>
      <property name="yalign">0.5</property>
      <property name="xpad">0</property>
      <property name="ypad">0</property>
    </widget>
    <packing>
      <property name="left_attach">0</property>
      <property name="right_attach">1</property>
      <property name="top_attach">1</property>
      <property name="bottom_attach">2</property>
      <property name="x_options">fill</property>
      <property name="y_options"></property>
    </packing>
  </child>

  <child>
    <widget class="GtkComboBox" id="combobox_linestyles">
      <property name="visible">True</property>
      <property name="items" translatable="yes"></property>
      <signal name="changed" handler="on_combobox_linestyle_changed" last_modification_time="Mon, 07 Nov
2005 20:43:56 GMT"/>
    </widget>
    <packing>
      <property name="left_attach">1</property>
      <property name="right_attach">2</property>
      <property name="top_attach">0</property>
      <property name="bottom_attach">1</property>
      <property name="y_options">fill</property>
    </packing>
  </child>

```



```

<child>
  <widget class="GtkComboBox" id="combobox_markers">
    <property name="visible">True</property>
    <property name="items" translatable="yes"></property>
    <signal name="changed" handler="on_combobox_marker_changed" last_modification_time="Mon, 07 Nov
2005 20:43:14 GMT"/>
  </widget>
  <packing>
    <property name="left_attach">1</property>
    <property name="right_attach">2</property>
    <property name="top_attach">1</property>
    <property name="bottom_attach">2</property>
    <property name="x_options">fill</property>
    <property name="y_options">fill</property>
  </packing>
</child>

<child>
  <widget class="GtkColorButton" id="colorbutton_linestyle">
    <property name="visible">True</property>
    <property name="can_focus">True</property>
    <property name="use_alpha">True</property>
    <property name="title" translatable="yes">Line color</property>
    <property name="focus_on_click">True</property>
    <signal name="color_set" handler="on_colorbutton_linestyle_color_set" last_modification_time="Mon, 07 Nov
2005 22:13:40 GMT"/>
  </widget>
  <packing>
    <property name="left_attach">2</property>
    <property name="right_attach">3</property>
    <property name="top_attach">0</property>
    <property name="bottom_attach">1</property>
    <property name="x_options">fill</property>
    <property name="y_options"></property>
  </packing>
</child>

<child>
  <widget class="GtkColorButton" id="colorbutton_markerface">
    <property name="visible">True</property>
    <property name="can_focus">True</property>
    <property name="use_alpha">False</property>
    <property name="title" translatable="yes">Marker color</property>
    <property name="focus_on_click">True</property>
    <signal name="color_set" handler="on_colorbutton_markerface_color_set" last_modification_time="Mon, 07
Nov 2005 22:14:00 GMT"/>
  </widget>
  <packing>

```

```

    <property name="left_attach">2</property>
    <property name="right_attach">3</property>
    <property name="top_attach">1</property>
    <property name="bottom_attach">2</property>
    <property name="x_options">fill</property>
    <property name="y_options"></property>
  </packing>
</child>

<child>
  <widget class="GtkLabel" id="label_linestyle">
    <property name="visible">True</property>
    <property name="label" translatable="yes">Line style</property>
    <property name="use_underline">False</property>
    <property name="use_markup">False</property>
    <property name="justify">GTK_JUSTIFY_LEFT</property>
    <property name="wrap">False</property>
    <property name="selectable">False</property>
    <property name="xalign">0.5</property>
    <property name="yalign">0.5</property>
    <property name="xpad">0</property>
    <property name="ypad">0</property>
  </widget>
  <packing>
    <property name="left_attach">0</property>
    <property name="right_attach">1</property>
    <property name="top_attach">0</property>
    <property name="bottom_attach">1</property>
    <property name="x_options">fill</property>
    <property name="y_options"></property>
  </packing>
</child>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
  </child>
</widget>
</child>
</widget>
  </child>
<child>
  <widget class="GtkLabel" id="fram_lineprops">
    <property name="visible">True</property>
    <property name="label" translatable="yes"><b>Line properties</b></property>

```

```
<property name="use_underline">False</property>
<property name="use_markup">True</property>
<property name="justify">GTK_JUSTIFY_LEFT</property>
<property name="wrap">False</property>
<property name="selectable">False</property>
<property name="xalign">0.5</property>
<property name="yalign">0.5</property>
<property name="xpad">0</property>
<property name="ypad">0</property>
</widget>
<packing>
  <property name="type">label_item</property>
</packing>
  </child>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
</child>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
  </child>
</widget>
</child>
</widget>
```

</glade-interface>

The Anti-Grain Geometry Project

A high quality rendering engine for C++

<http://antigrain.com>

Anti-Grain Geometry - Version 2.4

Copyright (C) 2002-2005 Maxim Shemanarev (McSeem)

Permission to copy, use, modify, sell and distribute this software  
is granted provided this copyright notice appears in all copies.

This software is provided "as is" without express or implied  
warranty, and with no claim as to its suitability for any purpose.

Qhull, Copyright (c) 1993-2012

C.B. Barber

Arlington, MA

and

The National Science and Technology Research Center for  
Computation and Visualization of Geometric Structures  
(The Geometry Center)  
University of Minnesota

email: [qhull@qhull.org](mailto:qhull@qhull.org)

This software includes Qhull from C.B. Barber and The Geometry Center.  
Qhull is copyrighted as noted above. Qhull is free software and may  
be obtained via [http](http://www.qhull.org) from [www.qhull.org](http://www.qhull.org). It may be freely copied, modified,  
and redistributed under the following conditions:

1. All copyright notices must remain intact in all files.
2. A copy of this text file must be distributed along with any copies  
of Qhull that you redistribute; this includes copies that you have  
modified, or copies of programs or other software products that  
include Qhull.
3. If you modify Qhull, you must include a notice giving the  
name of the person performing the modification, the date of  
modification, and the reason for such modification.
4. When distributing modified versions of Qhull, or other software  
products that include Qhull, you must provide notice that the original  
source code may be obtained as noted above.
5. There is no warranty or other guarantee of fitness for Qhull, it is  
provided solely "as is". Bug reports or fixes may be sent to  
[qhull\\_bug@qhull.org](mailto:qhull_bug@qhull.org); the authors may or may not act on them as  
they desire.

Comment found in jQuery source code:

```
/*!  
 * jQuery JavaScript Library v1.11.3  
 * http://jquery.com/  
 *  
 * Includes Sizzle.js  
 * http://sizzlejs.com/  
 *  
 * Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors  
 * Released under the MIT license  
 * http://jquery.org/license  
 *  
 * Date: 2015-04-28T16:19Z
```

\*/

Comment found in jQuery UI source code:

```
/*! jQuery UI - v1.11.4 - 2015-03-11
 * http://jqueryui.com
 * Includes: core.js, widget.js, mouse.js, position.js, accordion.js, autocomplete.js, button.js, datepicker.js, dialog.js,
 draggable.js, droppable.js, effect.js, effect-blind.js, effect-bounce.js, effect-clip.js, effect-drop.js, effect-explode.js,
 effect-fade.js, effect-fold.js, effect-highlight.js, effect-puff.js, effect-pulsate.js, effect-scale.js, effect-shake.js, effect-
 size.js, effect-slide.js, effect-transfer.js, menu.js, progressbar.js, resizable.js, selectable.js, selectmenu.js, slider.js,
 sortable.js, spinner.js, tabs.js, tooltip.js
 * Copyright 2015 jQuery Foundation and other contributors; Licensed MIT */
```

Text found at <http://jquery.org/license>:

jQuery Foundation projects are released under the terms of the license specified in the project's repository or if not specified, under the MIT license.

The MIT License is simple and easy to understand and it places almost no restrictions on what you can do with a jQuery Foundation project.

You are free to use any jQuery Foundation project in any other project (even commercial projects) as long as the copyright header is left intact.

The text links to <https://tldrlegal.com/license/mit-license> which includes the following as the "Full License Text":

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Module creating PyQt4 form dialogs/layouts to edit various type of parameters

formlayout License Agreement (MIT License)

-----

Copyright (c) 2009 Pierre Raybaut

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

""""

The cmr10.pfb file is a Type-1 version of one of Knuth's Computer Modern fonts. It is included here as test data only, but the following license applies.

Copyright (c) 1997, 2009, American Mathematical Society (<http://www.ams.org>). All Rights Reserved.

"cmb10" is a Reserved Font Name for this Font Software.  
"cmbsy10" is a Reserved Font Name for this Font Software.  
"cmbsy5" is a Reserved Font Name for this Font Software.  
"cmbsy6" is a Reserved Font Name for this Font Software.  
"cmbsy7" is a Reserved Font Name for this Font Software.  
"cmbsy8" is a Reserved Font Name for this Font Software.  
"cmbsy9" is a Reserved Font Name for this Font Software.  
"cmbx10" is a Reserved Font Name for this Font Software.  
"cmbx12" is a Reserved Font Name for this Font Software.

"cmbx5" is a Reserved Font Name for this Font Software.  
"cmbx6" is a Reserved Font Name for this Font Software.  
"cmbx7" is a Reserved Font Name for this Font Software.  
"cmbx8" is a Reserved Font Name for this Font Software.  
"cmbx9" is a Reserved Font Name for this Font Software.  
"cmbxsl10" is a Reserved Font Name for this Font Software.  
"cmbxti10" is a Reserved Font Name for this Font Software.  
"cmcsc10" is a Reserved Font Name for this Font Software.  
"cmcsc8" is a Reserved Font Name for this Font Software.  
"cmcsc9" is a Reserved Font Name for this Font Software.  
"cmdunh10" is a Reserved Font Name for this Font Software.  
"cmex10" is a Reserved Font Name for this Font Software.  
"cmex7" is a Reserved Font Name for this Font Software.  
"cmex8" is a Reserved Font Name for this Font Software.  
"cmex9" is a Reserved Font Name for this Font Software.  
"cmff10" is a Reserved Font Name for this Font Software.  
"cmfi10" is a Reserved Font Name for this Font Software.  
"cmfib8" is a Reserved Font Name for this Font Software.  
"cminch" is a Reserved Font Name for this Font Software.  
"cmitt10" is a Reserved Font Name for this Font Software.  
"cmmi10" is a Reserved Font Name for this Font Software.  
"cmmi12" is a Reserved Font Name for this Font Software.  
"cmmi5" is a Reserved Font Name for this Font Software.  
"cmmi6" is a Reserved Font Name for this Font Software.  
"cmmi7" is a Reserved Font Name for this Font Software.  
"cmmi8" is a Reserved Font Name for this Font Software.  
"cmmi9" is a Reserved Font Name for this Font Software.  
"cmmib10" is a Reserved Font Name for this Font Software.  
"cmmib5" is a Reserved Font Name for this Font Software.  
"cmmib6" is a Reserved Font Name for this Font Software.  
"cmmib7" is a Reserved Font Name for this Font Software.  
"cmmib8" is a Reserved Font Name for this Font Software.  
"cmmib9" is a Reserved Font Name for this Font Software.  
"cmr10" is a Reserved Font Name for this Font Software.  
"cmr12" is a Reserved Font Name for this Font Software.  
"cmr17" is a Reserved Font Name for this Font Software.  
"cmr5" is a Reserved Font Name for this Font Software.  
"cmr6" is a Reserved Font Name for this Font Software.  
"cmr7" is a Reserved Font Name for this Font Software.  
"cmr8" is a Reserved Font Name for this Font Software.  
"cmr9" is a Reserved Font Name for this Font Software.  
"cmsl10" is a Reserved Font Name for this Font Software.  
"cmsl12" is a Reserved Font Name for this Font Software.  
"cmsl8" is a Reserved Font Name for this Font Software.  
"cmsl9" is a Reserved Font Name for this Font Software.  
"cmsl10" is a Reserved Font Name for this Font Software.  
"cmss10" is a Reserved Font Name for this Font Software.  
"cmss12" is a Reserved Font Name for this Font Software.

"cmss17" is a Reserved Font Name for this Font Software.  
"cmss8" is a Reserved Font Name for this Font Software.  
"cmss9" is a Reserved Font Name for this Font Software.  
"cmssbx10" is a Reserved Font Name for this Font Software.  
"cmssdc10" is a Reserved Font Name for this Font Software.  
"cmssi10" is a Reserved Font Name for this Font Software.  
"cmssi12" is a Reserved Font Name for this Font Software.  
"cmssi17" is a Reserved Font Name for this Font Software.  
"cmssi8" is a Reserved Font Name for this Font Software.  
"cmssi9" is a Reserved Font Name for this Font Software.  
"cmssq8" is a Reserved Font Name for this Font Software.  
"cmssqi8" is a Reserved Font Name for this Font Software.  
"cmsy10" is a Reserved Font Name for this Font Software.  
"cmsy5" is a Reserved Font Name for this Font Software.  
"cmsy6" is a Reserved Font Name for this Font Software.  
"cmsy7" is a Reserved Font Name for this Font Software.  
"cmsy8" is a Reserved Font Name for this Font Software.  
"cmsy9" is a Reserved Font Name for this Font Software.  
"cmtcsc10" is a Reserved Font Name for this Font Software.  
"cmtex10" is a Reserved Font Name for this Font Software.  
"cmtex8" is a Reserved Font Name for this Font Software.  
"cmtex9" is a Reserved Font Name for this Font Software.  
"cmti10" is a Reserved Font Name for this Font Software.  
"cmti12" is a Reserved Font Name for this Font Software.  
"cmti7" is a Reserved Font Name for this Font Software.  
"cmti8" is a Reserved Font Name for this Font Software.  
"cmti9" is a Reserved Font Name for this Font Software.  
"cmtt10" is a Reserved Font Name for this Font Software.  
"cmtt12" is a Reserved Font Name for this Font Software.  
"cmtt8" is a Reserved Font Name for this Font Software.  
"cmtt9" is a Reserved Font Name for this Font Software.  
"cmu10" is a Reserved Font Name for this Font Software.  
"cmvtt10" is a Reserved Font Name for this Font Software.  
"euex10" is a Reserved Font Name for this Font Software.  
"euex7" is a Reserved Font Name for this Font Software.  
"euex8" is a Reserved Font Name for this Font Software.  
"euex9" is a Reserved Font Name for this Font Software.  
"eufb10" is a Reserved Font Name for this Font Software.  
"eufb5" is a Reserved Font Name for this Font Software.  
"eufb7" is a Reserved Font Name for this Font Software.  
"eufm10" is a Reserved Font Name for this Font Software.  
"eufm5" is a Reserved Font Name for this Font Software.  
"eufm7" is a Reserved Font Name for this Font Software.  
"eurb10" is a Reserved Font Name for this Font Software.  
"eurb5" is a Reserved Font Name for this Font Software.  
"eurb7" is a Reserved Font Name for this Font Software.  
"eurm10" is a Reserved Font Name for this Font Software.  
"eurm5" is a Reserved Font Name for this Font Software.



"eurm7" is a Reserved Font Name for this Font Software.  
"eusb10" is a Reserved Font Name for this Font Software.  
"eusb5" is a Reserved Font Name for this Font Software.  
"eusb7" is a Reserved Font Name for this Font Software.  
"eusm10" is a Reserved Font Name for this Font Software.  
"eusm5" is a Reserved Font Name for this Font Software.  
"eusm7" is a Reserved Font Name for this Font Software.  
"lasy10" is a Reserved Font Name for this Font Software.  
"lasy5" is a Reserved Font Name for this Font Software.  
"lasy6" is a Reserved Font Name for this Font Software.  
"lasy7" is a Reserved Font Name for this Font Software.  
"lasy8" is a Reserved Font Name for this Font Software.  
"lasy9" is a Reserved Font Name for this Font Software.  
"lasyb10" is a Reserved Font Name for this Font Software.  
"lcircle1" is a Reserved Font Name for this Font Software.  
"lcirclew" is a Reserved Font Name for this Font Software.  
"lcmss8" is a Reserved Font Name for this Font Software.  
"lcmssb8" is a Reserved Font Name for this Font Software.  
"lcmssi8" is a Reserved Font Name for this Font Software.  
"line10" is a Reserved Font Name for this Font Software.  
"linew10" is a Reserved Font Name for this Font Software.  
"msam10" is a Reserved Font Name for this Font Software.  
"msam5" is a Reserved Font Name for this Font Software.  
"msam6" is a Reserved Font Name for this Font Software.  
"msam7" is a Reserved Font Name for this Font Software.  
"msam8" is a Reserved Font Name for this Font Software.  
"msam9" is a Reserved Font Name for this Font Software.  
"msbm10" is a Reserved Font Name for this Font Software.  
"msbm5" is a Reserved Font Name for this Font Software.  
"msbm6" is a Reserved Font Name for this Font Software.  
"msbm7" is a Reserved Font Name for this Font Software.  
"msbm8" is a Reserved Font Name for this Font Software.  
"msbm9" is a Reserved Font Name for this Font Software.  
"wncyb10" is a Reserved Font Name for this Font Software.  
"wncyi10" is a Reserved Font Name for this Font Software.  
"wncyr10" is a Reserved Font Name for this Font Software.  
"wncysc10" is a Reserved Font Name for this Font Software.  
"wncyss10" is a Reserved Font Name for this Font Software.

This Font Software is licensed under the SIL Open Font License, Version 1.1.  
This license is copied below, and is also available with a FAQ at:  
<http://scripts.sil.org/OFL>

-----  
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007  
-----

PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

#### DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

#### PERMISSION & CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

- 1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
- 2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or

binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

#### TERMINATION

This license becomes null and void if any of the above conditions are not met.

#### DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

#### TERMS AND CONDITIONS

1. Permission is hereby granted, free of charge, to any person obtaining a copy of the STIX Fonts-TM set accompanying this license (collectively, the "Fonts") and the associated documentation files (collectively with the Fonts, the "Font Software"), to reproduce and distribute the Font Software, including the rights to use, copy, merge and publish copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so same, subject to the following terms and conditions (the "License").

2. The following copyright and trademark notice and these Terms and Conditions shall be included in all copies of one or more of the Font typefaces and any derivative work created as permitted under this License:

Copyright (c) 2001-2005 by the STI Pub Companies, consisting of the American Institute of Physics, the American Chemical Society, the American Mathematical Society, the American Physical Society, Elsevier, Inc., and The Institute of Electrical and Electronic Engineers, Inc. Portions copyright (c) 1998-2003 by MicroPress, Inc. Portions copyright (c) 1990 by Elsevier, Inc. All rights reserved. STIX Fonts-TM is a trademark of The Institute of Electrical and Electronics Engineers, Inc.

3. You may (a) convert the Fonts from one format to another (e.g., from TrueType to PostScript), in which case the normal and reasonable distortion that occurs during such conversion shall be permitted and (b) embed or include a subset of the Fonts in a document for the purposes of allowing users to read text in the document that utilizes the Fonts. In each case, you may use the STIX Fonts-TM mark to designate the resulting Fonts or subset of the Fonts.

4. You may also (a) add glyphs or characters to the Fonts, or modify the shape of existing glyphs, so long as the base set of glyphs is not removed and (b) delete glyphs or characters from the Fonts, provided that the resulting font set is distributed with the following disclaimer: "This [name] font does not include all the Unicode points covered in the STIX Fonts-TM set but may include others." In each case, the name used to denote the resulting font set shall not include the term "STIX" or any similar term.

5. You may charge a fee in connection with the distribution of the Font Software, provided that no copy of one or more of the individual Font typefaces that form the STIX Fonts-TM set may be sold by itself.

6. THE FONT SOFTWARE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK OR OTHER RIGHT. IN NO EVENT SHALL MICROPRESS OR ANY OF THE STI PUB COMPANIES BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING, BUT NOT LIMITED TO, ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM OR OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

7. Except as contained in the notice set forth in Section 2, the names MicroPress Inc. and STI Pub Companies, as well as the names of the companies/organizations that compose the STI Pub Companies, shall not be used in advertising or otherwise to promote the sale, use or other dealings in the Font Software without the prior written consent of the respective company or organization.

8. This License shall become null and void in the event of any material breach of the Terms and Conditions herein by licensee.

9. A substantial portion of the STIX Fonts set was developed by MicroPress Inc. for the STI Pub Companies. To obtain additional mathematical fonts, please contact MicroPress, Inc., 68-30 Harrow Street, Forest Hills, NY 11375, USA - Phone: (718) 575-1816.  
Copyright (c) 1970-2003, Wm. Randolph Franklin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.
2. Redistributions in binary form must reproduce the above copyright notice in the documentation and/or other materials provided with the distribution.
3. The name of W. Randolph Franklin may not be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache-Style Software License for ColorBrewer Color Schemes

Version 1.1

Copyright (c) 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania State University. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions as source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes color specifications and designs developed by Cynthia Brewer

(<http://colorbrewer.org/>).<sup>3</sup> Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

3. The name "ColorBrewer" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact Cynthia Brewer at [cbrewer@psu.edu](mailto:cbrewer@psu.edu).

4. Products derived from this software may not be called "ColorBrewer", nor may "ColorBrewer" appear in their name, without prior written permission of Cynthia Brewer.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL CYNTHIA BREWER, MARK HARROWER, OR THE PENNSYLVANIA STATE UNIVERSITY BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2001, 2002 Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of the Enthought nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BaKoMa Fonts Licence

-----

This licence covers two font packs (known as BaKoMa Fonts Colelction, which is available at ``CTAN:fonts/cm/ps-type1/bakoma/'`):

- 1) BaKoMa-CM (1.1/12-Nov-94)  
Computer Modern Fonts in PostScript Type 1 and TrueType font formats.
- 2) BaKoMa-AMS (1.2/19-Jan-95)  
AMS TeX fonts in PostScript Type 1 and TrueType font formats.

Copyright (C) 1994, 1995, Basil K. Malyshev. All Rights Reserved.

Permission to copy and distribute these fonts for any purpose is hereby granted without fee, provided that the above copyright notice, author statement and this permission notice appear in all copies of these fonts and related documentation.

Permission to modify and distribute modified fonts for any purpose is hereby granted without fee, provided that the copyright notice, author statement, this permission notice and location of original fonts (<http://www.ctan.org/tex-archive/fonts/cm/ps-type1/bakoma>) appear in all copies of modified fonts and related documentation.

Permission to use these fonts (embedding into PostScript, PDF, SVG and printing by using any software) is hereby granted without fee. It is not required to provide any notices about using these fonts.

Basil K. Malyshev  
INSTITUTE FOR HIGH ENERGY PHYSICS  
IHEP, OMVT  
Moscow Region  
142281 PROTVINO  
RUSSIA

E-Mail: bakoma@mail.ru  
or malyshev@mail.ihep.ru  
LICENSE AGREEMENT FOR MATPLOTLIB 1.2.0

-----

1. This LICENSE AGREEMENT is between John D. Hunter ("JDH"), and the Individual or Organization ("Licensee") accessing and otherwise using matplotlib software in source or binary form and its associated

documentation.

2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 1.2.0 alone or in any derivative version, provided, however, that JDH's License Agreement and JDH's notice of copyright, i.e., "Copyright (c) 2002-2011 John D. Hunter; All Rights Reserved" are retained in matplotlib 1.2.0 alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 1.2.0 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to matplotlib 1.2.0.

4. JDH is making matplotlib 1.2.0 available to Licensee on an "AS IS" basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 1.2.0 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 1.2.0 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 1.2.0, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib 1.2.0, Licensee agrees to be bound by the terms and conditions of this License Agreement.  
BSD-style license for gist/yorick colormaps.

Copyright:

Copyright (c) 1996. The Regents of the University of California.



All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

This work was produced at the University of California, Lawrence Livermore National Laboratory under contract no. W-7405-ENG-48 between the U.S. Department of Energy and The Regents of the University of California for the operation of UC LLNL.

#### DISCLAIMER

This software was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately-owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

#### AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

# 5.31 Miniconda3 4.1.11

## 5.31.1 Available under license :

=====  
Miniconda License  
=====

Copyright 2016, Continuum Analytics, Inc.

All rights reserved under the 3-clause BSD License:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Continuum Analytics, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL CONTINUUM ANALYTICS, INC. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice of Third Party Software Licenses

=====  
Anaconda contains open source software packages from third parties. These are available on an "as is" basis and subject to their individual license agreements. These licenses are available in Anaconda or at <http://docs.continuum.io/anaconda/pkg-docs> . Any binary packages of these third party tools you obtain via Anaconda are subject to their individual licenses as well as the Anaconda license. Continuum reserves the right to change which third party tools are provided in Anaconda.

## 5.32 mistune 0.7.3 :1

### 5.32.1 Available under license :

Copyright (c) 2014 - 2015, Hsiaoming Yang

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the creator nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.33 mock 2.0.0

### 5.33.1 Available under license :

Copyright (c) 2003-2013, Michael Foord & the mock team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above

copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.34 nbconvert 4.2.0

### 5.34.1 Available under license :

# Licensing terms

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE

FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:  
<https://github.com/jupyter/>.

## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.  
# Distributed under the terms of the Modified BSD License.
```

## 5.35 nbformat 4.0.1 :1

### 5.35.1 Available under license :

# Licensing terms

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### ## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here: <https://github.com/jupyter/>.

#### ## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.
```

# Distributed under the terms of the Modified BSD License.

## 5.36 nose\_warnings\_filters 0.1.0

### 5.36.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Matthias Bussonnier

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.37 notebook 5.0.0.dev0 :1

### 5.37.1 Available under license :

# Licensing terms

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### ## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:  
<https://github.com/jupyter/>.

#### ## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright over their contributions to Jupyter. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Jupyter source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Jupyter Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) Jupyter Development Team.  
# Distributed under the terms of the Modified BSD License.
```



## 5.38 numba 0.23.1 :1

### 5.38.1 Available under license :

Copyright (c) 2012, Continuum Analytics, Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.39 numexpr 2.5.2

### 5.39.1 Available under license :

Copyright (c) 2007,2008 David M. Cooke <david.m.cooke@gmail.com>  
Copyright (c) 2009,2010 Francesc Altet <faltet@pytables.org>  
Copyright (c) 2011- See AUTHORS.txt

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.40 pamelas 0.2.1 :1

### 5.40.1 Available under license :

The MIT License (MIT)

Copyright (c) 2007-2014 Chris AtLee <chris@atlee.ca>

Copyright (c) 2010-2014 Grzegorz Nosek <root@localdomain.pl>

Some changes Copyright (c) 2013-2014 Leon Weber <leon@leonweber.de> (<https://github.com/leonnnn/python3-simplepam>)

Copyright (c) 2015- Min RK <benjaminrk@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.41 pandas 0.18.1 :1

### 5.41.1 Available under license :

-----  
The files

- numpydoc.py

- docsrape.py

- docsrape\_sphinx.py

- phantom\_import.py

have the following license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The files

- compiler\_unparse.py
- comment\_eater.py
- traitsdoc.py

have the following license:

This software is OSI Certified Open Source Software.

OSI Certified is a certification mark of the Open Source Initiative.

Copyright (c) 2006, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Enthought, Inc. nor the names of its contributors may

be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The file  
- plot\_directive.py  
originates from Matplotlib (<http://matplotlib.sf.net/>) which has  
the following license:

Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved.

1. This LICENSE AGREEMENT is between John D. Hunter (JDH), and the Individual or Organization (Licensee) accessing and otherwise using matplotlib software in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 0.98.3 alone or in any derivative version, provided, however, that JDHs License Agreement and JDHs notice of copyright, i.e., Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved are retained in matplotlib 0.98.3 alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 0.98.3 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to matplotlib 0.98.3.
4. JDH is making matplotlib 0.98.3 available to Licensee on an AS IS basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 0.98.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 0.98.3 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 0.98.3, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib 0.98.3, Licensee agrees to be bound by the terms and conditions of this License Agreement.

=====  
License  
=====

pandas is distributed under a 3-clause ("Simplified" or "New") BSD license. Parts of NumPy, SciPy, numpydoc, bottleneck, which all have BSD-compatible licenses, are included. Their licenses follow the pandas license.

pandas license  
=====

Copyright (c) 2011-2012, Lambda Foundry, Inc. and PyData Development Team  
All rights reserved.

Copyright (c) 2008-2011 AQR Capital Management, LLC  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the copyright holder nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### About the Copyright Holders

=====

AQR Capital Management began pandas development in 2008. Development was led by Wes McKinney. AQR released the source under this license in 2009. Wes is now an employee of Lambda Foundry, and remains the pandas project lead.

The PyData Development Team is the collection of developers of the PyData project. This includes all of the PyData sub-projects, including pandas. The core team that coordinates development on GitHub can be found here: <http://github.com/pydata>.

Full credits for pandas contributors can be found in the documentation.

#### Our Copyright Policy

=====

PyData uses a shared copyright model. Each contributor maintains copyright over their contributions to PyData. However, it is important to note that these contributions are typically only changes to the repositories. Thus, the PyData source code, in its entirety, is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire PyData Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change when they commit the change to one of the PyData repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
#-----  
# Copyright (c) 2012, PyData Development Team  
# All rights reserved.  
#  
# Distributed under the terms of the BSD Simplified License.  
#  
# The full license is in the LICENSE file, distributed with this software.  
#-----
```

Other licenses can be found in the LICENSES directory.

## 5.42 patsy 0.4.1 :1

### 5.42.1 Available under license :

The bulk of Patsy is distributed under a simple 2-clause BSD license:

Copyright (C) 2011-2012, Patsy Developers. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The module patsy.compat contains code derived from the Python standard library, and is covered by the following license:

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

- 
1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.
  2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright,

i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

As per item (3), we are required to provide a brief summary of changes. For this, see comments in patsy/compat.py.

## 5.43 pbr 1.10.0 :1

### 5.43.1 Available under license :

Copyright (C) 2005 Association of Universities for Research in Astronomy (AURA)

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright



notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of AURA and its representatives may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY AURA ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL AURA BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## 5.44 pexpect 4.2.0

### 5.44.1 Available under license :

ISC LICENSE

This license is approved by the OSI and FSF as GPL-compatible.

<http://opensource.org/licenses/isc-license.txt>

Copyright (c) 2013-2014, Pexpect development team

Copyright (c) 2012, Noah Spurrier <[noah@noah.org](mailto:noah@noah.org)>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 5.45 pickleshare 0.7.3 :1

### 5.45.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Ville Vainio

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.46 pip 8.1.2 :1

### 5.46.1 Available under license :

Copyright (c) 2008-2016 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.47 ptyprocess 0.5.1

### 5.47.1 Available under license :

Ptyprocess is under the ISC license, as code derived from Pexpect.

<http://opensource.org/licenses/ISC>

Copyright (c) 2013-2014, Pexpect development team

Copyright (c) 2012, Noah Spurrier <noah@noah.org>

PERMISSION TO USE, COPY, MODIFY, AND/OR DISTRIBUTE THIS SOFTWARE FOR ANY PURPOSE WITH OR WITHOUT FEE IS HEREBY GRANTED, PROVIDED THAT THE ABOVE COPYRIGHT NOTICE AND THIS PERMISSION NOTICE APPEAR IN ALL COPIES. THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT

SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 5.48 py 1.4.31 :1

### 5.48.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.49 Pygments 2.1.3 :1

### 5.49.1 Available under license :

Copyright (c) 2006-2015 by the respective authors (see AUTHORS file).  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.50 pytest 2.9.2 :1

### 5.50.1 Available under license :

Copyright (c) 2010 by Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

We kindly ask you to only use these themes in an unmodified manner just for Flask and Flask-related products, not for unrelated projects. If you like the visual style and want to use it for your own projects, please consider making some larger changes to the themes (such as changing font faces, sizes, colors or margins).

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN



CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2004-2016 Holger Krekel and others

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.51 pytest-cov 2.3.0 :1

### 5.51.1 Available under license :

The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

## 5.52 python-editor 1.0.1 :1

### 5.52.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 5.53 pyzmq 15.3.0 :1

### 5.53.1 Available under license :

GNU GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other



than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have



actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

#### 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.

Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

#### 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

#### 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

#### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are

covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

#### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If

you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

#### 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

#### 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

-----

SPECIAL EXCEPTION GRANTED BY COPYRIGHT HOLDERS

As a special exception, copyright holders give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you must extend this exception to your version of the library.

Note: this exception relieves you of any obligations under sections 4 and 5 of this license, and section 6 of the GNU General Public License.

PyZMQ is licensed under the terms of the Modified BSD License (also known as New or Revised BSD), as follows:

Copyright (c) 2009-2012, Brian Granger, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of PyZMQ nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

PyZMQ examples are copyright their respective authors, and licensed under the New BSD License as described in COPYING.BSD unless otherwise specified in the file.



## 5.54 requests 2.10.0 :1

### 5.54.1 Available under license :

Requests includes some vendorized python libraries to ease installation.

Urllib3 License

=====

This is the MIT license: <http://www.opensource.org/licenses/mit-license.php>

Copyright 2008-2011 Andrey Petrov and contributors (see CONTRIBUTORS.txt),  
Modifications copyright 2012 Kenneth Reitz.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Chardet License

=====

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

## CA Bundle License

=====

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

Copyright 2016 Kenneth Reitz

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Mozilla Public License  
Version 2.0

### 1. Definitions

#### 1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

#### 1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

#### 1.3. Contribution

means Covered Software of a particular Contributor.

#### 1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

#### 1.5. Incompatible With Secondary Licenses

means

that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

#### 1.6. Executable Form

means any form of the work other than Source Code Form.

#### 1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

#### 1.8. License

means this document.

#### 1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

#### 1.10. Modifications

means any of the following:

any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

#### 1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

#### 1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

#### 1.13. Source Code Form

means the form of the work preferred for making modifications.

#### 1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants and Conditions

### 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

#### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

#### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

#### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

#### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

### 4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

## 6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

## 7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

## 8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

#### Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <https://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

## Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible With Secondary Licenses, as defined by the Mozilla Public License, v. 2.0.  
GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,  
not price. Our General Public Licenses are designed to make sure that  
you have the freedom to distribute copies of free software (and charge  
for this service if you wish); that you receive source code or can get  
it if you want it; that you can change the software and use pieces of  
it in new free programs; and that you are informed that you can do  
these things.

To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
rights. These restrictions translate to certain responsibilities for  
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis  
or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link other code with the library, you must provide  
complete object files to the recipients, so that they can relink them



with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is



copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 5.55 requests-mock 1.0.0 :1

### 5.55.1 Available under license :

Copyright (c) 2014, Jamie Lennox  
All rights reserved.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## 5.56 scikit-image 0.11.3

### 5.56.1 Available under license :

Unless otherwise specified by LICENSE.txt files in individual directories, all code is

Copyright (C) 2011, the scikit-image team  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of skimage nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE

DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

threshold\_li based on imagej code:

Copyright (c) 2009 - 2015, Board of Regents of the University of Wisconsin-Madison, Broad Institute of MIT and Harvard, and Max Planck Institute of Molecular Cell Biology and Genetics.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

tiff file

Copyright (c) 2008-2014, Christoph Gohlke  
Copyright (c) 2008-2014, The Regents of the University of California  
Produced at the Laboratory for Fluorescence Dynamics

Distributed under the terms of the BSD License.

version\_requirements.\_check\_version:

Copyright (C) 2013 The IPython Development Team

Distributed under the terms of the BSD License.

version\_requirements.is\_installed:

Original Copyright (C) 2009-2011 Pierre Raybaut

Licensed under the terms of the MIT License.

- Stefan van der Walt

Project coordination

- Nicolas Pinto

Colour spaces and filters, and image resizing.

Shape views: ``util.shape.view\_as\_windows`` and ``util.shape.view\_as\_blocks``

Montage helpers: ``util.montage``.

- Damian Eads

Morphological operators

- Mahipal Raythattha

Documentation infrastructure

- S. Chris Colbert

OpenCV wrappers, Scivi, Qt and Gtk gui bits, fast Hough transform,  
and much more.

- Holger Rapp

OpenCV functions and better OSX library loader

- Ralf Gommers

Image IO, color spaces, plots in documentation, cleaner API docs

- Helge Reikeras

Logic around API docs generation

- Tony Yu

Reading of paletted images; build, bug and doc fixes.

Code to generate skimage logo.

Otsu thresholding, histogram equalisation, template matching, and more.

- Zachary Pincus

Tracing of low cost paths, FreeImage I/O plugin, iso-contours,  
and more.

- Almar Klein

Binary heap class for graph algorithms

- Lee Kamensky and Thouis Jones of the CellProfiler team, Broad Institute, MIT



Constant time per pixel median filter, edge detectors, and more.

- Dan Farmer

Incorporating CellProfiler's Canny edge detector, ctypes loader with Windows support.

- Pieter Holtzhausen

Incorporating CellProfiler's Sobel edge detector, build and bug fixes. Radon transform, template matching.

- Emmanuelle Gouillart

Total variation noise filtering, integration of CellProfiler's mathematical morphology tools, random walker segmentation, tutorials, and more.

- Mal Primet

Total variation noise filtering

- Martin Bergholdt

Fix missing math.h functions in Windows 7 + MSVCC.

- Neil Muller

Numerous fixes, including those for Python 3 compatibility, QT image reading.

- The IPython team

From whom we borrowed the github+web tools / style.

- Kyle Mandli

CSV to ReST code for feature comparison table.

- The Scikit Learn team

From whom we borrowed the example generation tools.

- Andreas Mueller

Example data set loader. Nostest compatibility functions.

Quickshift image segmentation, Felzenszwalbs fast graph based segmentation.

- Yaroslav Halchenko

For sharing his expert advice on Debian packaging.

- Brian Holt

Histograms of Oriented Gradients

- David-Warde Farley, Sturla Molden

Bresenham line drawing, from snippets on numpy-discussion.

- Christoph Gohlke

Windows packaging and Python 3 compatibility.

- Neil Yager

Skeletonization and grey level co-occurrence matrices.

- Nelle Varoquaux

Renaming of the package to `skimage`.

Harris corner detector

- W. Randolph Franklin

Point in polygon test.

- Gal Varoquaux

Harris corner detector

- Nicolas Poilvert

Shape views: `util.shape.view_as_windows` and `util.shape.view_as_blocks`

Image resizing.

- Johannes Schnberger

Drawing functions, adaptive thresholding, regionprops, geometric transformations, LBPs, polygon approximations, web layout, and more.

- Pavel Campr

Fixes and tests for Histograms of Oriented Gradients.

- Joshua Warner

Multichannel random walker segmentation, unified peak finder backend, n-dimensional array padding, marching cubes, bug and doc fixes.

- Petter Strandmark

Perimeter calculation in regionprops.

- Olivier Debeir

Rank filters (8- and 16-bits) using sliding window.

- Luis Pedro Coelho

imread plugin

- Steven Silvester, Karel Zuiderveld

Adaptive Histogram Equalization

- Anders Boesen Lindbo Larsen

Dense DAISY feature description, circle perimeter drawing.

- Francois Boulogne

Drawing: Andres Method for circle perimeter, ellipse perimeter drawing,

Bezier curve, anti-aliasing.

## Circular and elliptical Hough Transforms

Various fixes

- Thouis Jones

Vectorized operators for arrays of 16-bit ints.

- Xavier Moles Lopez

Color separation (color deconvolution) for several stainings.

- Jostein B Flystad

Tomography: radon/iradon improvements and SART implementation

Phase unwrapping integration

- Matt Terry

Color difference functions

- Eugene Dvoretzky

Yen, Ridler-Calvard (ISODATA) threshold implementations.

- Riaan van den Dool

skimage.io plugin: GDAL

- Fedor Morozov

Drawing: Wu's anti-aliased circle

- Michael Hansen

novice submodule

- Munther Gdeisat

Phase unwrapping implementation

- Miguel Arevallilo Herraiz

Phase unwrapping implementation

- Hussein Abdul-Rahman

Phase unwrapping implementation

- Gregor Thalhammer

Phase unwrapping integration

- Francois Orieux

Image deconvolution <http://research.orieux.fr>

- Vighnesh Birodkar

Blob Detection

- Axel Donath

Blob Detection

- Adam Feuer  
PIL Image import and export improvements
  
- Rebecca Murphy  
astronaut in examples
  
- Geoffrey French  
skimage.filters.rank.windowed\_histogram and plot\_windowed\_histogram example.
  
- Alexey Umnov  
skimage.draw.ellipse bug fix and tests.
  
- Ivana Kajic  
Updated description and examples in documentation for gabor filters
  
- Matj T  
Extended the image labelling implementation so it also works on 3D images.
  
- Salvatore Scaramuzzino  
RectTool example
  
- Kevin Keraudren  
Fix and test for feature.peak\_local\_max
  
- Jeremy Metz  
Adaptation of ImageJ Autothresholder.Li, fixed Qhull error QH6228
  
- Mike Sarahan  
Sub-pixel shift registration
  
- Jim Fienup, Alexander Iacchetta  
In-depth review of sub-pixel shift registration  
These files were obtained from

<https://www.mail-archive.com/sphinx-dev@googlegroups.com/msg02472.html>

and were released under a BSD/MIT license by Fernando Perez, Matthew Brett and the PyMVPA guys.

License

=====

.. literalinclude:: ../../LICENSE.txt

# 5.57 scikit-learn 0.17.1

## 5.57.1 Available under license :

---

The files

- numpydoc.py
- autosummary.py
- autosummary\_generate.py
- docsrape.py
- docsrape\_sphinx.py
- phantom\_import.py

have the following license:

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The files

- compiler\_unparse.py
- comment\_eater.py
- traitsdoc.py

have the following license:

This software is OSI Certified Open Source Software.

OSI Certified is a certification mark of the Open Source Initiative.

Copyright (c) 2006, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Enthought, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The files

- only\_directives.py

- plot\_directive.py

originate from Matplotlib (<http://matplotlib.sf.net/>) which has the following license:

Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved.

1. This LICENSE AGREEMENT is between John D. Hunter (JDH), and the Individual or Organization (Licensee) accessing and otherwise using matplotlib software in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 0.98.3 alone or in any derivative version, provided, however, that JDHs License Agreement and JDHs notice of copyright, i.e., Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved are retained in matplotlib 0.98.3 alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 0.98.3 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees

to include in any such work a brief summary of the changes made to matplotlib 0.98.3.

4. JDH is making matplotlib 0.98.3 available to Licensee on an AS IS basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 0.98.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 0.98.3 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 0.98.3, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib 0.98.3, Licensee agrees to be bound by the terms and conditions of this License Agreement.

New BSD License

Copyright (c) 2007-2015 The scikit-learn developers.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of the Scikit-learn Developers nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.58 scipy 0.17.1

### 5.58.1 Available under license :

Copyright (c) 2001, 2002 Enthought, Inc.  
All rights reserved.

Copyright (c) 2003-2012 SciPy Developers.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of Enthought nor the names of the SciPy Developers may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

weave is distributed under the same license as SciPy which uses a BSD Style license. weave includes blitz++ by Todd Veldhuizen who kindly granted us permission to use blitz++ with the regular SciPy license (i.e., the revised BSD license). For more details see the email exchange below:

-----  
Todd Veldhuizen <tveldhui AT gmail DOT com> Tue, Mar 25, 2008 at 11:55 AM  
To: Jarrod Millman <millman AT berkeley DOT edu>  
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen



<tveldhui AT acm DOT org>

I have no objections to releasing it under a BSD license.

best

Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:

> Julian and Todd,

>

> I'm writing to see if we can get an exception to the Blitz license so  
> that it can be released with a BSD license within SciPy. Currently,  
> the Fedora project is classifying the entire SciPy package as GPLed  
> because one package, scipy.weave, uses blitz. (the rest of the code is  
> all BSD). We were about to launch into the re-factoring step to make  
> the blitz portion optional, when it occurred to us to just ask you  
> guys first. :-)

>

> Blitz is included in the scipy.weave package which allows you to  
> inline C/C++ within Python. Users have the option of converting NumPy  
> arrays to blitz arrays for use in C++. There is also a function  
> (weave.blitz) that will automatically convert NumPy expressions in  
> Python to Blitz expressions in C++. Often this shows notable speed  
> improvements. Our re-factoring step will require us to split the  
> blitz code into the blitz and non-blitz portions. This is a bit of a  
> pain, and ends up with more installation issues than if we didn't do  
> it.

>

> Thanks for your consideration,

>

> --

> Jarrod Millman

> Computational Infrastructure for Research Labs

> 10 Giannini Hall, UC Berkeley

> phone: 510.643.4014

> <http://cirl.berkeley.edu/>

-----  
weave also includes CXX by Paul Dubois, portions of SCXX by Gordon McMillan.  
The licenses for CXX and SCXX are different, but allow free use for  
both commercial and non-commercial purposes. The licenses for each are  
listed below:

-----  
SciPy License

Copyright (c) 2001, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of the Enthought nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
CXX License

\*\*\* Legal Notice for all LLNL-contributed files \*\*\*

Copyright (c) 1996. The Regents of the University of California.  
All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

This work was produced at the University of California, Lawrence Livermore National Laboratory under contract no. W-7405-ENG-48 between the U.S. Department of Energy and The Regents of the University of California for the operation of UC LLNL.

DISCLAIMER

This software was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately-owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

-----  
SCXX License

No restrictions on usage, modification or redistribution, as long as the copyright notice is maintained. No warranty whatsoever.

copyright 1999 McMillan Enterprises, Inc.

[www.mcmillan-inc.com](http://www.mcmillan-inc.com)

prehistoric

This version obtained on 1 Jun 84 from (kahaner@nbs-sdc)

David K. Kahaner

Scientific Computing Division

National Bureau of Standards

Washington DC 20234

WARNING: the calling sequences here differ from those in the book:

R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner

Quadpack: a Subroutine Package for Automatic Integration

Springer Verlag, 1983. Series in Computational Mathematics v.1

Qhull, Copyright (c) 1993-2012

C.B. Barber

Arlington, MA

and

The National Science and Technology Research Center for

Computation and Visualization of Geometric Structures

(The Geometry Center)

University of Minnesota

email: [qhull@qhull.org](mailto:qhull@qhull.org)

This software includes Qhull from C.B. Barber and The Geometry Center. Qhull is copyrighted as noted above. Qhull is free software and may be obtained via http from [www.qhull.org](http://www.qhull.org). It may be freely copied, modified, and redistributed under the following conditions:

1. All copyright notices must remain intact in all files.
2. A copy of this text file must be distributed along with any copies of Qhull that you redistribute; this includes copies that you have modified, or copies of programs or other software products that include Qhull.
3. If you modify Qhull, you must include a notice giving the name of the person performing the modification, the date of modification, and the reason for such modification.
4. When distributing modified versions of Qhull, or other software products that include Qhull, you must provide notice that the original source code may be obtained as noted above.
5. There is no warranty or other guarantee of fitness for Qhull, it is provided solely "as is". Bug reports or fixes may be sent to [qhull\\_bug@qhull.org](mailto:qhull_bug@qhull.org); the authors may or may not act on them as they desire.

Copyright (C) 2003-2005 Peter J. Verveer

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BSD Software License

Pertains to ARPACK and P\_ARPACK

Copyright (c) 1996-2008 Rice University.

Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.

All rights reserved.

Arpack has been renamed to arpack-ng.

Copyright (c) 2001-2011 - Scilab Enterprises

Updated by Allan Cornet, Sylvestre Ledru.

Copyright (c) 2010 - Jordi Gutierrez Hermoso (Octave patch)

Copyright (c) 2007 - Sbastien Fabbro (gentoo patch)

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1992-2015 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.

Copyright (c) 2000-2015 The University of California Berkeley. All rights reserved.

Copyright (c) 2006-2015 The University of Colorado Denver. All rights reserved.

## \$COPYRIGHT\$

Additional copyrights may follow

## \$HEADERS\$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

files split from toms/big644 on 1 Dec 1987 (already public)

-----m dongarra Fri Jun 21 17:58:49 EDT 1991

Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years.

The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the "-l" prefix from amos in /netlib/admin/LIBS.

- \* The i1mach,r1mach,d1mach routines supplied here are not the official netlib versions. They are said to be enhanced copies of the 1975 release. If you have troubles, try mailing to netlib
- \* send i1mach r1mach d1mach from blas
- \* and see if that helps.

Copyright (c) 2002-2005, Jean-Sebastien Roy (js@jeannot.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----  
The files

- numpydoc.py
- docsrape.py
- docsrape\_sphinx.py
- phantom\_import.py

have the following license:

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The files

- compiler\_unparse.py
- comment\_eater.py
- traitsdoc.py

have the following license:

This software is OSI Certified Open Source Software.

OSI Certified is a certification mark of the Open Source Initiative.

Copyright (c) 2006, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Enthought, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND



ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The file  
- plot\_directive.py  
originates from Matplotlib (<http://matplotlib.sf.net/>) which has  
the following license:

Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved.

1. This LICENSE AGREEMENT is between John D. Hunter (JDH), and the Individual or Organization (Licensee) accessing and otherwise using matplotlib software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 0.98.3 alone or in any derivative version, provided, however, that JDHs License Agreement and JDHs notice of copyright, i.e., Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved are retained in matplotlib 0.98.3 alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 0.98.3 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to matplotlib 0.98.3.

4. JDH is making matplotlib 0.98.3 available to Licensee on an AS IS basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 0.98.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 0.98.3 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 0.98.3, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib 0.98.3, Licensee agrees to be bound by the terms and conditions of this License Agreement.

## 5.59 seaborn 0.7.1 :1

### 5.59.1 Available under license :

Copyright (C) 2012 Alexei Boronine

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2010-2014 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012-2013, Michael L. Waskom

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of the {organization} nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.60 setuptools 20.10.1

### 5.60.1 Available under license :

Zope Public License (ZPL) Version 2.0  
-----

This software is Copyright (c) Zope Corporation (tm) and Contributors. All rights reserved.

This license has been certified as open source. It has also been designated as GPL compatible by the Free Software Foundation (FSF).

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name Zope Corporation (tm) must not be used to endorse or promote products derived from this software without prior written permission from Zope Corporation.
4. The right to distribute this software or to use it for any purpose does not give you the right to use Servicemarks (sm) or Trademarks (tm) of Zope Corporation. Use of them is covered in a separate agreement (see <http://www.zope.com/Marks>).
5. If any files are modified, you must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

#### Disclaimer

THIS SOFTWARE IS PROVIDED BY ZOPE CORPORATION ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ZOPE CORPORATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of contributions made by Zope Corporation and many individuals on behalf of Zope Corporation. Specific attributions are listed in the accompanying credits file.

## 5.61 simplegeneric 0.8.1 :1

## 5.62 six 1.10.0

## 5.62.1 Available under license :

Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.63 spark 1.6.2

### 5.63.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,



and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====  
Apache Spark Subcomponents:

The Apache Spark project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

=====  
For heapq (pyspark/heapq3.py):

=====  
See license/LICENSE-heapq.txt

=====  
For SnapTree:  
=====

See license/LICENSE-SnapTree.txt

=====  
For jbcrypt:  
=====

See license/LICENSE-jbcrypt.txt

=====  
BSD-style licenses  
=====

The following components are provided under a BSD-style license. See project link for details.  
The text of each license is also included at licenses/LICENSE-[project].txt.

(BSD 3 Clause) netlib core (com.github.fommil.netlib:core:1.1.2 - <https://github.com/fommil/netlib-java/core>)  
(BSD 3 Clause) JPMML-Model (org.jpmmml:pmml-model:1.1.15 - <https://github.com/jpmmml/jpmmml-model>)  
(BSD 3-clause style license) jblas (org.jblas:jblas:1.2.4 - <http://jblas.org/>)  
(BSD License) AntLR Parser Generator (antlr:antlr:2.7.7 - <http://www.antlr.org/>)  
(BSD licence) ANTLR ST4 4.0.4 (org.antlr:ST4:4.0.4 - <http://www.stringtemplate.org>)  
(BSD licence) ANTLR StringTemplate (org.antlr:stringtemplate:3.2.1 - <http://www.stringtemplate.org>)  
(BSD License) Javolution (javolution:javolution:5.5.1 - <http://javolution.org>)  
(BSD) JLine (jline:jline:0.9.94 - <http://jline.sourceforge.net>)  
(BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.3 - <http://paranamer.codehaus.org/paranamer>)  
(BSD) ParaNamer Core (com.thoughtworks.paranamer:paranamer:2.6 - <http://paranamer.codehaus.org/paranamer>)  
(BSD 3 Clause) Scala (<http://www.scala-lang.org/download/#License>)  
    (Interpreter classes (all .scala files in repl/src/main/scala  
    except for Main.Scala, SparkHelper.scala and ExecutorClassLoader.scala),  
    and for SerializableMapWrapper in JavaUtils.scala)  
(BSD-like) Scala Actors library (org.scala-lang:scala-actors:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scala Compiler (org.scala-lang:scala-compiler:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scala Compiler (org.scala-lang:scala-reflect:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scala Library (org.scala-lang:scala-library:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-like) Scalap (org.scala-lang:scalap:2.10.5 - <http://www.scala-lang.org/>)  
(BSD-style) scalacheck (org.scalacheck:scalacheck\_2.10:1.10.0 - <http://www.scalacheck.org>)  
(BSD-style) spire (org.spire-math:spire\_2.10:0.7.1 - <http://spire-math.org>)  
(BSD-style) spire-macros (org.spire-math:spire-macros\_2.10:0.7.1 - <http://spire-math.org>)  
(New BSD License) Kryo (com.esotericsoftware.kryo:kryo:2.21 - <http://code.google.com/p/kryo/>)

(New BSD License) MinLog (com.esotericsoftware.minlog:minlog:1.2 - <http://code.google.com/p/minlog/>)  
(New BSD License) ReflectASM (com.esotericsoftware.reflectasm:reflectasm:1.07 - <http://code.google.com/p/reflectasm/>)  
(New BSD license) Protocol Buffer Java API (com.google.protobuf:protobuf-java:2.5.0 - <http://code.google.com/p/protobuf/>)  
(New BSD license) Protocol Buffer Java API (org.spark-project.protobuf:protobuf-java:2.4.1-shaded - <http://code.google.com/p/protobuf/>)  
(The BSD License) Fortran to Java ARPACK (net.sourceforge.f2j:arpack\_combined\_all:0.1 - <http://f2j.sourceforge.net>)  
(The BSD License) xmlenc Library (xmlenc:xmlenc:0.52 - <http://xmlenc.sourceforge.net>)  
(The New BSD License) Py4J (net.sf.py4j:py4j:0.9 - <http://py4j.sourceforge.net/>)  
(Two-clause BSD-style license) JUnit-Interface (com.novocode:junit-interface:0.10 - <http://github.com/szeiger/junit-interface/>)  
(BSD licence) sbt and sbt-launch-lib.bash  
(BSD 3 Clause) d3.min.js (<https://github.com/mbostock/d3/blob/master/LICENSE>)  
(BSD 3 Clause) DPark (<https://github.com/douban/dpark/blob/master/LICENSE>)  
(BSD 3 Clause) CloudPickle (<https://github.com/cloudpipe/cloudpickle/blob/master/LICENSE>)

---

#### MIT licenses

---

The following components are provided under the MIT License. See project link for details.  
The text of each license is also included at licenses/LICENSE-[project].txt.

(MIT License) JCL 1.1.1 implemented over SLF4J (org.slf4j:jcl-over-slf4j:1.7.5 - <http://www.slf4j.org>)  
(MIT License) JUL to SLF4J bridge (org.slf4j:jul-to-slf4j:1.7.5 - <http://www.slf4j.org>)  
(MIT License) SLF4J API Module (org.slf4j:slf4j-api:1.7.5 - <http://www.slf4j.org>)  
(MIT License) SLF4J LOG4J-12 Binding (org.slf4j:slf4j-log4j12:1.7.5 - <http://www.slf4j.org>)  
(MIT License) pyrolite (org.spark-project:pyrolite:2.0.1 - <http://pythonhosted.org/Pyro4/>)  
(MIT License) scopt (com.github.scopt:scopt\_2.10:3.2.0 - <https://github.com/scopt/scopt>)  
(The MIT License) Mockito (org.mockito:mockito-core:1.9.5 - <http://www.mockito.org>)  
(MIT License) jquery (<https://jquery.org/license/>)  
(MIT License) AnchorJS (<https://github.com/bryanbraun/anchorjs>)  
(MIT License) graphlib-dot (<https://github.com/cpetitt/graphlib-dot>)  
(MIT License) dagre-d3 (<https://github.com/cpetitt/dagre-d3>)  
(MIT License) sortable (<https://github.com/stuartlangridge/sortable>)  
(MIT License) boto (<https://github.com/boto/boto/blob/develop/LICENSE>)

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

[The BSD License]

Copyright (c) 2012 Terence Parr and Sam Harwell

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2006-2008 Mitch Garnaat <http://garnaat.org/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT

SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012, Regents of the University of California.

Copyright (c) 2009 PiCloud, Inc. <<http://www.picloud.com>>`\_.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the University of California, Berkeley nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2010-2015, Michael Bostock

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011, Douban Inc. <<http://www.douban.com/>>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of the Douban Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright © 2015 The University of Tennessee. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.

• Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is" and any express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. in no event shall the copyright owner or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

Copyright (c) 2012-2013 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```

# A. HISTORY OF THE SOFTWARE
# =====
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.
#
# All Python releases are Open Source (see http://www.opensource.org for
# the Open Source Definition). Historically, most, but not all, Python
# releases have also been GPL-compatible; the table below summarizes
# the various releases.
#
# Release      Derived  Year   Owner   GPL-
# from                compatible? (1)
#
# 0.9.0 thru 1.2      1991-1995 CWI     yes
# 1.3 thru 1.5.2 1.2    1995-1999 CNRI    yes
# 1.6            1.5.2  2000    CNRI    no
# 2.0            1.6    2000    BeOpen.com no
# 1.6.1         1.6    2001    CNRI    yes (2)
# 2.1           2.0+1.6.1 2001    PSF     no
# 2.0.1         2.0+1.6.1 2001    PSF     yes
# 2.1.1         2.1+2.0.1 2001    PSF     yes
# 2.2           2.1.1   2001    PSF     yes
# 2.1.2         2.1.1   2002    PSF     yes
# 2.1.3         2.1.2   2002    PSF     yes
# 2.2.1         2.2     2002    PSF     yes
# 2.2.2         2.2.1   2002    PSF     yes
# 2.2.3         2.2.2   2003    PSF     yes
# 2.3           2.2.2   2002-2003 PSF     yes
# 2.3.1         2.3     2002-2003 PSF     yes
# 2.3.2         2.3.1   2002-2003 PSF     yes

```



```

# 2.3.3      2.3.2    2002-2003  PSF    yes
# 2.3.4      2.3.3    2004      PSF    yes
# 2.3.5      2.3.4    2005      PSF    yes
# 2.4        2.3      2004      PSF    yes
# 2.4.1      2.4      2005      PSF    yes
# 2.4.2      2.4.1  2005      PSF    yes
# 2.4.3      2.4.2  2006      PSF    yes
# 2.4.4      2.4.3  2006      PSF    yes
# 2.5        2.4      2006      PSF    yes
# 2.5.1      2.5      2007      PSF    yes
# 2.5.2      2.5.1  2008      PSF    yes
# 2.5.3      2.5.2  2008      PSF    yes
# 2.6        2.5      2008      PSF    yes
# 2.6.1      2.6      2008      PSF    yes
# 2.6.2      2.6.1  2009      PSF    yes
# 2.6.3      2.6.2  2009      PSF    yes
# 2.6.4      2.6.3  2009      PSF    yes
# 2.6.5      2.6.4  2010      PSF    yes
# 2.7        2.6      2010      PSF    yes

```

```
#
```

```
# Footnotes:
```

```
#
```

```
# (1) GPL-compatible doesn't mean that we're distributing Python under
# the GPL. All Python licenses, unlike the GPL, let you distribute
# a modified version without making your changes open source. The
# GPL-compatible licenses make it possible to combine Python with
# other software that is released under the GPL; the others don't.
```

```
#
```

```
# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
# because its license has a choice of law clause. According to
# CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
# is "not incompatible" with the GPL.
```

```
#
```

```
# Thanks to the many outside volunteers who have worked under Guido's
# direction to make these releases possible.
```

```
#
```

```
#
```

```
# B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
```

```
# =====
```

```
#
```

```
# PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
```

```
# -----
```

```
#
```

```
# 1. This LICENSE AGREEMENT is between the Python Software Foundation
# ("PSF"), and the Individual or Organization ("Licensee") accessing and
# otherwise using this software ("Python") in source or binary form and
# its associated documentation.
```

```
#
```

# 2. Subject to the terms and conditions of this License Agreement, PSF hereby  
# grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,  
# analyze, test, perform and/or display publicly, prepare derivative works,  
# distribute, and otherwise use Python alone or in any derivative version,  
# provided, however, that PSF's License Agreement and PSF's notice of copyright,  
# i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,  
# 2011, 2012, 2013 Python Software Foundation; All Rights Reserved" are retained  
# in Python alone or in any derivative version prepared by Licensee.  
#  
# 3. In the event Licensee prepares a derivative work that is based on  
# or incorporates Python or any part thereof, and wants to make  
# the derivative work available to others as provided herein, then  
# Licensee hereby agrees to include in any such work a brief summary of  
# the changes made to Python.  
#  
# 4. PSF is making Python available to Licensee on an "AS IS"  
# basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. Nothing in this License Agreement shall be deemed to create any  
# relationship of agency, partnership, or joint venture between PSF and  
# Licensee. This License Agreement does not grant permission to use PSF  
# trademarks or trade name in a trademark sense to endorse or promote  
# products or services of Licensee, or any third party.  
#  
# 8. By copying, installing or otherwise using Python, Licensee  
# agrees to be bound by the terms and conditions of this License  
# Agreement.  
#  
#  
# BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0  
# -----  
#  
# BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1  
#  
# 1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an  
# office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the

# Individual or Organization ("Licensee") accessing and otherwise using  
# this software in source or binary form and its associated  
# documentation ("the Software").  
#  
# 2. Subject to the terms and conditions of this BeOpen Python License  
# Agreement, BeOpen hereby grants Licensee a non-exclusive,  
# royalty-free, world-wide license to reproduce, analyze, test, perform  
# and/or display publicly, prepare derivative works, distribute, and  
# otherwise use the Software alone or in any derivative version,  
# provided, however, that the BeOpen Python License is retained in the  
# Software, alone or in any derivative version prepared by Licensee.  
#  
# 3. BeOpen is making the Software available to Licensee on an "AS IS"  
# basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE  
# SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS  
# AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY  
# DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 5. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 6. This License Agreement shall be governed by and interpreted in all  
# respects by the law of the State of California, excluding conflict of  
# law provisions. Nothing in this License Agreement shall be deemed to  
# create any relationship of agency, partnership, or joint venture  
# between BeOpen and Licensee. This License Agreement does not grant  
# permission to use BeOpen trademarks or trade names in a trademark  
# sense to endorse or promote products or services of Licensee, or any  
# third party. As an exception, the "BeOpen Python" logos available at  
# <http://www.pythonlabs.com/logos.html> may be used according to the  
# permissions granted on that web page.  
#  
# 7. By copying, installing or otherwise using the software, Licensee  
# agrees to be bound by the terms and conditions of this License  
# Agreement.  
#  
#  
# CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1  
# -----  
#  
# 1. This LICENSE AGREEMENT is between the Corporation for National  
# Research Initiatives, having an office at 1895 Preston White Drive,

# Reston, VA 20191 ("CNRI"), and the Individual or Organization  
# ("Licensee") accessing and otherwise using Python 1.6.1 software in  
# source or binary form and its associated documentation.  
#  
# 2. Subject to the terms and conditions of this License Agreement, CNRI  
# hereby grants Licensee a nonexclusive, royalty-free, world-wide  
# license to reproduce, analyze, test, perform and/or display publicly,  
# prepare derivative works, distribute, and otherwise use Python 1.6.1  
# alone or in any derivative version, provided, however, that CNRI's  
# License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)  
# 1995-2001 Corporation for National Research Initiatives; All Rights  
# Reserved" are retained in Python 1.6.1 alone or in any derivative  
# version prepared by Licensee. Alternately, in lieu of CNRI's License  
# Agreement, Licensee may substitute the following text (omitting the  
# quotes): "Python 1.6.1 is made available subject to the terms and  
# conditions in CNRI's License Agreement. This Agreement together with  
# Python 1.6.1 may be located on the Internet using the following  
# unique, persistent identifier (known as a handle): 1895.22/1013. This  
# Agreement may also be obtained from a proxy server on the Internet  
# using the following URL: <http://hdl.handle.net/1895.22/1013>".  
#  
# 3. In the event Licensee prepares a derivative work that is based on  
# or incorporates Python 1.6.1 or any part thereof, and wants to make  
# the derivative work available to others as provided herein, then  
# Licensee hereby agrees to include in any such work a brief summary of  
# the changes made to Python 1.6.1.  
#  
# 4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"  
# basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR  
# IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND  
# DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS  
# FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT  
# INFRINGE ANY THIRD PARTY RIGHTS.  
#  
# 5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON  
# 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS  
# A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,  
# OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
#  
# 6. This License Agreement will automatically terminate upon a material  
# breach of its terms and conditions.  
#  
# 7. This License Agreement shall be governed by the federal  
# intellectual property law of the United States, including without  
# limitation the federal copyright law, and, to the extent such  
# U.S. federal law does not apply, by the law of the Commonwealth of  
# Virginia, excluding Virginia's conflict of law provisions.  
# Notwithstanding the foregoing, with regard to derivative works based

```

# on Python 1.6.1 that incorporate non-separable material that was
# previously distributed under the GNU General Public License (GPL), the
# law of the Commonwealth of Virginia shall govern this License
# Agreement only as to issues arising under or with respect to
# Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this
# License Agreement shall be deemed to create any relationship of
# agency, partnership, or joint venture between CNRI and Licensee. This
# License Agreement does not grant permission to use CNRI trademarks or
# trade name in a trademark sense to endorse or promote products or
# services of Licensee, or any third party.
#
# 8. By clicking on the "ACCEPT" button where indicated, or by copying,
# installing or otherwise using Python 1.6.1, Licensee agrees to be
# bound by the terms and conditions of this License Agreement.
#
# ACCEPT
#
#
# CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
# -----
#
# Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
# The Netherlands. All rights reserved.
#
# Permission to use, copy, modify, and distribute this software and its
# documentation for any purpose and without fee is hereby granted,
# provided that the above copyright notice appear in all copies and that
# both that copyright notice and this permission notice appear in
# supporting documentation, and that the name of Stichting Mathematisch
# Centrum or CWI not be used in advertising or publicity pertaining to
# distribution of the software without specific, written prior
# permission.
#
# STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
# THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
# FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
# FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
/*
* Javolution - Java(tm) Solution for Real-Time and Embedded Systems
* Copyright (c) 2012, Javolution (http://javolution.org/)
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*

```

- \* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \*
- \* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \*
- \* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- \*/

jBCrypt is subject to the following license:

- /\*
- \* Copyright (c) 2006 Damien Miller <djm@mindrot.org>
- \*
- \* Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.
- \*
- \* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
- \*/

Copyright (c) 2009, Mikio L. Braun and contributors  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following

disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of the Technische Universität Berlin nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, University of Tartu  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009-2012, Stefan Zeiger  
All rights reserved.

Redistribution and use in source and binary forms, with or without



modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2008, Nathan Sweet  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2008, Nathan Sweet  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013 Samuel Halliday

Copyright (c) 1992-2011 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.

Copyright (c) 2000-2011 The University of California Berkeley. All rights reserved.

Copyright (c) 2006-2011 The University of Colorado Denver. All rights reserved.

## \$COPYRIGHT\$

Additional copyrights may follow

## \$HEADERS\$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

[ ParaNamer used to be 'Public Domain', but since it includes a small piece of ASM it is now the same license as that: BSD ]

Copyright (c) 2006 Paul Hammant & ThoughtWorks Inc  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to all parts of Protocol Buffers except the following:

- Atomicops support for generic gcc, located in `src/google/protobuf/stubs/atomicops_internals_generic_gcc.h`. This file is copyrighted by Red Hat Inc.
- Atomicops support for AIX/POWER, located in `src/google/protobuf/stubs/atomicops_internals_aix.h`. This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.  
Copyright (c) 2009-2011, Barthelemy Dagenais All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Pyro - Python Remote Objects  
Software License, copyright, and disclaimer

Pyro is Copyright (c) by Irmien de Jong (irmien@razorvine.net).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This is the "MIT Software License" which is OSI-certified, and GPL-compatible. See <http://www.opensource.org/licenses/mit-license.php>

Copyright (c) 2008, Nathan Sweet  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

// Generated from <http://www.opensource.org/licenses/bsd-license.php>

Copyright (c) 2011, Paul Phillips.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2002-2013 EPFL

Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ScalaCheck LICENSE

Copyright (c) 2007-2015, Rickard Nilsson

All rights reserved.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:



The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2004-2013 QOS.ch  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
SNAPTREE LICENSE

Copyright (c) 2009-2012 Stanford University, unless otherwise specified.  
All rights reserved.

This software was developed by the Pervasive Parallelism Laboratory of Stanford University, California, USA.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of Stanford University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997-2007 Stuart Langridge

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011-2012 Erik Osheim, Tom Switzer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2003-2005, Ernst de Haan <wfe.dehaan@gmail.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache Spark

Copyright 2014 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

=====  
Common Development and Distribution License 1.0  
=====

The following components are provided under the Common Development and Distribution License 1.0. See project link for details.

(CDDL 1.0) Glassfish Jasper (org.mortbay.jetty:jsp-2.1:6.1.14 - <http://jetty.mortbay.org/project/modules/jsp-2.1>)

(CDDL 1.0) Servlet Specification 2.5 API (org.mortbay.jetty:servlet-api-2.5:6.1.14 - <http://jetty.mortbay.org/project/modules/servlet-api-2.5>)

(COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0) (GNU General Public Library) Streaming API for XML (javax.xml.stream:stax-api:1.0-2 - no url defined)

(Common Development and Distribution License (CDDL) v1.0) JavaBeans Activation Framework (JAF) (javax.activation:activation:1.1 - <http://java.sun.com/products/javabeans/jaf/index.jsp>)

=====  
Common Development and Distribution License 1.1  
=====

The following components are provided under the Common Development and Distribution License 1.1. See project link for details.

(CDDL 1.1) (GPL2 w/ CPE) JAXB API bundle for GlassFish V3 (javax.xml.bind:jaxb-api:2.2.2 - <https://jaxb.dev.java.net/>)

(CDDL 1.1) (GPL2 w/ CPE) JAXB RI (com.sun.xml.bind:jaxb-impl:2.2.3-1 - <http://jaxb.java.net/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.8 - <https://jersey.dev.java.net/jersey-core/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-core (com.sun.jersey:jersey-core:1.9 - <https://jersey.java.net/jersey-core/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-guice (com.sun.jersey.contribs:jersey-guice:1.9 - <https://jersey.java.net/jersey-contribs/jersey-guice/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.8 - <https://jersey.dev.java.net/jersey-json/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-json (com.sun.jersey:jersey-json:1.9 - <https://jersey.java.net/jersey-json/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.8 - <https://jersey.dev.java.net/jersey-server/>)

(CDDL 1.1) (GPL2 w/ CPE) jersey-server (com.sun.jersey:jersey-server:1.9 - <https://jersey.java.net/jersey-server/>)

=====  
Common Public License 1.0  
=====

The following components are provided under the Common Public 1.0 License. See project link for details.

(Common Public License Version 1.0) JUnit (junit:junit-dep:4.10 - <http://junit.org>)

(Common Public License Version 1.0) JUnit (junit:junit:3.8.1 - <http://junit.org>)

(Common Public License Version 1.0) JUnit (junit:junit:4.8.2 - <http://junit.org>)

=====  
Eclipse Public License 1.0  
=====

The following components are provided under the Eclipse Public License 1.0. See project link for details.

(Eclipse Public License - Version 1.0) mqtt-client (org.eclipse.paho:mqtt-client:0.4.0 - <http://www.eclipse.org/paho/mqtt-client>)

(Eclipse Public License v1.0) Eclipse JDT Core (org.eclipse.jdt:core:3.1.1 - <http://www.eclipse.org/jdt/>)

---

---

Mozilla Public License 1.0

---

---

The following components are provided under the Mozilla Public License 1.0. See project link for details.

(GPL) (LGPL) (MPL) JTransforms (com.github.rwl:jtransforms:2.4.0 -  
<http://sourceforge.net/projects/jtransforms/>)

(Mozilla Public License Version 1.1) jamon-runtime (org.jamon:jamon-runtime:2.3.1 -  
<http://www.jamon.org/jamon-runtime/>)

---

---

NOTICE files

---

---

The following NOTICES are pertain to software distributed with this project.

```
// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for  
// -----
```

Apache Avro  
Copyright 2009-2013 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache Commons Codec  
Copyright 2002-2009 The Apache Software Foundation

This product includes software developed by  
The Apache Software Foundation (<http://www.apache.org/>).

```
-----  
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from http://aspell.sourceforge.net/test/batch0.tab.
```

Copyright (C) 2002 Kevin Atkinson (kevin@gnu.org). Verbatim copying  
and distribution of this entire article is permitted in any medium,  
provided this notice is preserved.

```
-----
```

Apache HttpComponents HttpClient  
Copyright 1999-2011 The Apache Software Foundation

This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Tim Peierls. See <http://www.jcip.net>

Apache HttpComponents HttpCore  
Copyright 2005-2011 The Apache Software Foundation

Curator Recipes  
Copyright 2011-2014 The Apache Software Foundation

Curator Framework  
Copyright 2011-2014 The Apache Software Foundation

Curator Client  
Copyright 2011-2014 The Apache Software Foundation

Apache Geronimo  
Copyright 2003-2008 The Apache Software Foundation

Activation 1.1  
Copyright 2003-2007 The Apache Software Foundation

Apache Commons Lang  
Copyright 2001-2014 The Apache Software Foundation

This product includes software from the Spring Framework,  
under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)

Apache log4j  
Copyright 2007 The Apache Software Foundation

# Compress LZF

This library contains efficient implementation of LZF compression format,  
as well as additional helper classes that build on JDK-provided gzip (deflate)  
codec.

## Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE file.

## Credit

Library has been written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)).  
It was started at Ning, inc., as an official Open Source process used by  
platform backend, but after initial versions has been developed outside of  
Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

Objenesis

Copyright 2006-2009 Joe Walnes, Henri Tremblay, Leonardo Mesquita

Apache Commons Net

Copyright 2001-2010 The Apache Software Foundation

### The Netty Project

=====

Please visit the Netty web site for more information:

- \* <http://netty.io/>

Copyright 2011 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

- \* LICENSE:
  - \* <license/LICENSE.jsr166y.txt> (Public Domain)
- \* HOMEPAGE:
  - \* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>
  - \* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.base64.txt (Public Domain)
- \* HOMEPAGE:
  - \* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.jzlib.txt (BSD Style License)
- \* HOMEPAGE:
  - \* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.protobuf.txt (New BSD License)
- \* HOMEPAGE:
  - \* <http://code.google.com/p/protobuf/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.slf4j.txt (MIT License)
- \* HOMEPAGE:
  - \* <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.commons-logging.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.log4j.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <http://logging.apache.org/log4j/>



This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.jboss-logging.txt](#) (GNU LGPL 2.1)

\* HOMEPAGE:

\* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

\* LICENSE:

\* [license/LICENSE.felix.txt](#) (Apache License 2.0)

\* HOMEPAGE:

\* <http://felix.apache.org/>

This product optionally depends on 'Webbit', a Java event based WebSocket and HTTP server:

\* LICENSE:

\* [license/LICENSE.webbit.txt](#) (BSD License)

\* HOMEPAGE:

\* <https://github.com/joewalnes/webbit>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

mesos  
Copyright 2014 The Apache Software Foundation

Apache Thrift  
Copyright 2006-2010 The Apache Software Foundation.

Apache Ant  
Copyright 1999-2013 The Apache Software Foundation

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

Apache Commons IO  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons Math  
Copyright 2001-2013 The Apache Software Foundation

=====  
The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.  
=====

The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (<http://www.scipy.org/>) Copyright © 2003-2009 SciPy Developers.  
=====

The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, Relationship, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (<http://www.benmccann.com>) and distributed with the following copyright: Copyright 2009 Google Inc.  
=====

This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.

The LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general includes software translated from the lmdcr, lmpar and qrsolv Fortran routines from the Minpack package

The GraggBulirschStoerIntegrator class in package  
org.apache.commons.math3.ode.nonstiff includes software translated  
from the odex Fortran routine developed by E. Hairer and G. Wanner.  
Original source copyright:  
Copyright (c) 2004, Ernst Hairer

---

The EigenDecompositionImpl class in package  
org.apache.commons.math3.linear includes software translated  
from some LAPACK Fortran routines. Original source copyright:  
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

---

The MersenneTwister class in package org.apache.commons.math3.random  
includes software translated from the 2002-01-26 version of  
the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji  
Nishimura. Original source copyright:  
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,  
All rights reserved

---

The LocalizedFormatsTest class in the unit tests is an adapted version of  
the OrekitMessagesTest class from the orekit library distributed under the  
terms of the Apache 2 licence. Original source copyright:  
Copyright 2010 CS Syst mes d'Information

---

The HermiteInterpolator class and its corresponding test have been imported from  
the orekit library distributed under the terms of the Apache 2 licence. Original  
source copyright:  
Copyright 2010-2012 CS Syst mes d'Information

---

The creation of the package "o.a.c.m.analysis.integration.gauss" was inspired  
by an original code donated by Sbastien Brisard.

---

The complete text of licenses and disclaimers associated with the the original  
sources enumerated above at the time of code translation are in the LICENSE.txt  
file.

This product currently only contains code developed by authors  
of specific components, as identified by the source code files;  
if such notes are missing files have been created by  
Tatu Saloranta.

For additional credits (generally to people who reported problems)  
see CREDITS file.

Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation

Apache Commons Compress  
Copyright 2002-2012 The Apache Software Foundation

Apache Commons CLI  
Copyright 2001-2009 The Apache Software Foundation

Google Guice - Extensions - Servlet  
Copyright 2006-2011 Google, Inc.

Google Guice - Core Library  
Copyright 2006-2011 Google, Inc.

Apache Jakarta HttpClient  
Copyright 1999-2007 The Apache Software Foundation

Apache Hive  
Copyright 2008-2013 The Apache Software Foundation

This product includes software developed by The Apache Software  
Foundation (<http://www.apache.org/>).

This product includes software developed by The JDBM Project  
(<http://jdbm.sourceforge.net/>).

This product includes/uses ANTLR (<http://www.antlr.org/>),  
Copyright (c) 2003-2011, Terrence Parr.

This product includes/uses StringTemplate (<http://www.stringtemplate.org/>),  
Copyright (c) 2011, Terrence Parr.

This product includes/uses ASM (<http://asm.ow2.org/>),  
Copyright (c) 2000-2007 INRIA, France Telecom.

This product includes/uses org.json (<http://www.json.org/java/index.html>),  
Copyright (c) 2002 JSON.org

This product includes/uses JLine (<http://jline.sourceforge.net/>),  
Copyright (c) 2002-2006, Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SQLLine (<http://sqlline.sourceforge.net/>),  
Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>.

This product includes/uses SLF4J (<http://www.slf4j.org/>),  
Copyright (c) 2004-2010 QOS.ch

This product includes/uses Bootstrap (<http://twitter.github.com/bootstrap/>),  
Copyright (c) 2012 Twitter, Inc.

This product includes/uses Glyphicons (<http://glyphicons.com/>),  
Copyright (c) 2010 - 2012 Jan KovarÃ-k

This product includes DataNucleus (<http://www.datanucleus.org/>)  
Copyright 2008-2008 DataNucleus

This product includes Guava (<http://code.google.com/p/guava-libraries/>)  
Copyright (C) 2006 Google Inc.

This product includes JavaEWAH (<http://code.google.com/p/javaewah/>)  
Copyright (C) 2011 Google Inc.

Apache Commons Pool  
Copyright 1999-2009 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==  
== Version 2.0, in this case for the DataNucleus distribution. ==  
=====

=====  
This product includes software developed by many individuals,  
including the following:

=====  
Erik Bengtson  
Andy Jefferson  
=====

=====  
This product has included contributions from some individuals,  
including the following:

=====  
=====

=====  
This product has included contributions from some individuals,  
including the following:

=====  
Joerg von Frantzius  
Thomas Marti  
Barry Haddow  
Marco Schulze  
Ralph Ullrich  
=====

David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Marcus Mennemeier  
Xuan Baldauf  
Eric Sultan

=====  
This product also includes software developed by the TJDO project  
(<http://tjdo.sourceforge.net/>).  
=====

=====  
This product includes software developed by many individuals,  
including the following:  
=====

Andy Jefferson  
Erik Bengtson  
Joerg von Frantzius  
Marco Schulze

=====  
This product has included contributions from some individuals,  
including the following:  
=====

Barry Haddow  
Ralph Ullrich  
David Ezzio  
Brendan de Beer  
David Eaves  
Martin Taal  
Tony Lai  
Roland Szabo  
Anton Troshin (Timesten)

=====  
This product also includes software developed by the Apache Commons project  
(<http://commons.apache.org/>).  
=====

Apache Java Data Objects (JDO)  
Copyright 2005-2006 The Apache Software Foundation

=====  
== NOTICE file corresponding to section 4(d) of the Apache License, ==

== Version 2.0, in this case for the Apache Derby distribution. ==

Apache Derby  
Copyright 2004-2008 The Apache Software Foundation

Portions of Derby were originally developed by International Business Machines Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement", informally known as the "Derby CLA".  
The following copyright notice(s) were affixed to portions of the code with which this file is now or was at one time distributed and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation. All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally developed by the National Institute of Standards and Technology (NIST), an agency of the United States Department of Commerce, and adapted by International Business Machines Corporation in accordance with the NIST Software Acknowledgment and Redistribution document at [http://www.itl.nist.gov/div897/ctg/sql\\_form.htm](http://www.itl.nist.gov/div897/ctg/sql_form.htm)

Apache Commons Collections  
Copyright 2001-2008 The Apache Software Foundation

Apache Commons Configuration  
Copyright 2001-2008 The Apache Software Foundation

Apache Jakarta Commons Digester  
Copyright 2001-2006 The Apache Software Foundation

Apache Commons BeanUtils  
Copyright 2000-2008 The Apache Software Foundation

Apache Avro Mapred API  
Copyright 2009-2013 The Apache Software Foundation

Apache Avro IPC  
Copyright 2009-2013 The Apache Software Foundation

Vis.js  
Copyright 2010-2015 Almende B.V.

Vis.js is dual licensed under both

\* The Apache 2.0 License

<http://www.apache.org/licenses/LICENSE-2.0>

and

\* The MIT License

<http://opensource.org/licenses/MIT>

Vis.js may be distributed under either license.

Vis.js uses and redistributes the following third-party libraries:

- component-emitter

<https://github.com/component/emitter>

The MIT License

- hammer.js

<http://hammerjs.github.io/>

The MIT License

- moment.js

<http://momentjs.com/>

The MIT License

- keycharm

<https://github.com/AlexDM0/keycharm>

The MIT License

=====  
The CSS style for the navigation sidebar of the documentation was originally submitted by Áscar Nájera for the scikit-learn project. The scikit-learn project is distributed under the 3-Clause BSD license.  
=====

## 5.64 SQLAlchemy 1.0.14.dev0 :1

### 5.64.1 Available under license :

This is the MIT license: <http://www.opensource.org/licenses/mit-license.php>

Copyright (c) 2005-2016 the SQLAlchemy authors and contributors <see AUTHORS file>.

SQLAlchemy is a trademark of Michael Bayer.

Permission is hereby granted, free of charge, to any person obtaining a copy of this



software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.65 statsmodels 0.6.1 :1

### 5.65.1 Available under license :

Copyright (C) 2006, Jonathan E. Taylor  
All rights reserved.

Copyright (c) 2006-2008 Scipy Developers.  
All rights reserved.

Copyright (c) 2009-2012 Statsmodels Developers.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of Statsmodels nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL STATSMODELS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2011, Roger Lew [see LICENSE.txt]

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the organizations affiliated with the contributors or the names of its contributors themselves may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 2006, Jonathan E. Taylor

All rights reserved.

Copyright (c) 2006-2008 Scipy Developers.

All rights reserved.

Copyright (c) 2009-2013 Statsmodels Developers.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Last Change: Tue Jul 17 05:00 PM 2007 J

The code and descriptive text is copyrighted and offered under the terms of the BSD License from the authors; see below. However, the actual dataset may have a different origin and intellectual property status. See the SOURCE and COPYRIGHT variables for this information.

Copyright (c) 2007 David Cournapeau <cournape@gmail.com>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the author nor the names of any contributors may be used to endorse or promote products derived from this software without

specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
The files

- numpydoc.py
- autosummary.py
- autosummary\_generate.py
- docsrape.py
- docsrape\_sphinx.py
- phantom\_import.py

have the following license:

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The files

- compiler\_unparse.py
- comment\_eater.py
- traitsdoc.py

have the following license:

This software is OSI Certified Open Source Software.

OSI Certified is a certification mark of the Open Source Initiative.

Copyright (c) 2006, Enthought, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Enthought, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The files

- only\_directives.py
  - plot\_directive.py
- originate from Matplotlib (<http://matplotlib.sf.net/>) which has the following license:

Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved.

1. This LICENSE AGREEMENT is between John D. Hunter (JDH), and the Individual or Organization (Licensee) accessing and otherwise using matplotlib software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 0.98.3 alone or in any derivative version, provided, however, that JDHs License Agreement and JDHs notice of copyright, i.e., Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved are retained in matplotlib 0.98.3 alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 0.98.3 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to matplotlib 0.98.3.
4. JDH is making matplotlib 0.98.3 available to Licensee on an AS IS basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 0.98.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 0.98.3 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 0.98.3, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.
8. By copying, installing or otherwise using matplotlib 0.98.3, Licensee agrees to be bound by the terms and conditions of this License Agreement.

The license of statsmodels can be found in LICENSE.txt

statsmodels contains code or derivative code from several other packages. Some modules also note the author of individual contributions, or author of code that formed the basis for the derived or translated code. The copyright statements for the datasets are attached to the individual datasets, most datasets are in public domain, and we don't claim any copyright on any of them.

In the following, we collect copyright statements of code from other packages, all of which are either a version of BSD or MIT licensed:

numpy  
scipy  
pandas  
matplotlib  
scikit-learn

qsturng-py <http://code.google.com/p/qsturng-py/>

numpy (statsmodels.compatnp contains copy of entire model)

-----  
Copyright (c) 2005-2009, NumPy Developers.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the NumPy Developers nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
scipy

-----  
Copyright (c) 2001, 2002 Enthought, Inc.

All rights reserved.

Copyright (c) 2003-2009 SciPy Developers.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of the Enthought nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
pandas  
-----

Copyright (c) 2008-2009 AQR Capital Management, LLC  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the copyright holder nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT



LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

matplotlib (copied from license.py)

-----

LICENSE AGREEMENT FOR MATPLOTLIB %(version)s

-----

1. This LICENSE AGREEMENT is between John D. Hunter ("JDH"), and the Individual or Organization ("Licensee") accessing and otherwise using matplotlib software in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib %(version)s alone or in any derivative version, provided, however, that JDH's License Agreement and JDH's notice of copyright, i.e., "Copyright (c) 2002-%(year)d John D. Hunter; All Rights Reserved" are retained in matplotlib %(version)s alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib %(version)s or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to matplotlib %(version)s.
4. JDH is making matplotlib %(version)s available to Licensee on an "AS IS" basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB %(version)s WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB

%(version)s FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB %(version)s, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib %(version)s, Licensee agrees to be bound by the terms and conditions of this License Agreement.

-----

scikits-learn

-----

New BSD License

Copyright (c) 2007 - 2010 Scikit-Learn Developers.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of the Scikit-learn Developers nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

qsturng-py (code included in statsmodels.stats.libqsturng)

-----

Copyright (c) 2011, Roger Lew [see LICENSE.txt]  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the organizations affiliated with the contributors or the names of its contributors themselves may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

## 5.66 sympy 1.0

### 5.66.1 Available under license :

Copyright (c) 2006-2014 SymPy developers

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of the SymPy nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2006-2016 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- c. Neither the name of SymPy nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 5.67 terminado 0.6 :1

### 5.67.1 Available under license :

From RPM File Metadata:UNKNOWN

## 5.68 toree 0.1.0.dev9 :1

### 5.68.1 Available under license :

Apache Toree is an effort undergoing incubation at the Apache Software Foundation (ASF), sponsored by the Apache Incubator PMC.

Incubation is required of all newly accepted projects until a further review indicates that the infrastructure, communications, and decision making process have stabilized in a manner consistent with other successful ASF projects.

While incubation status is not necessarily a reflection of the completeness or stability of the code, it does indicate that the project has yet to be fully endorsed by the ASF.

Additionally, this release is not fully compliant with Apache release policy and includes a runtime dependency that is licensed as LGPL v3 (plus a static linking exception). This package is currently under an effort to re-license (<https://github.com/zeromq/jeromq/issues/327>).

Apache Toree

Copyright [2016] The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>)

=====  
Apache Toree External Dependencies:

- org.zeromq:jeromq:0.3.4 -> <https://github.com/zeromq/jeromq/blob/master/COPYING>

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Copyright (c) 2007-2010 Contributors as listed in AUTHORS

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade



names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```
/*
 *           Apache License
 *           Version 2.0, January 2004
 *           http://www.apache.org/licenses/
 *
 * TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
 *
 * 1. Definitions.
 *
 * "License" shall mean the terms and conditions for use, reproduction,
 * and distribution as defined by Sections 1 through 9 of this document.
 *
 * "Licensor" shall mean the copyright owner or entity authorized by
 * the copyright owner that is granting the License.
 *
 * "Legal Entity" shall mean the union of the acting entity and all
 * other entities that control, are controlled by, or are under common
 * control with that entity. For the purposes of this definition,
 * "control" means (i) the power, direct or indirect, to cause the
 * direction or management of such entity, whether by contract or
 * otherwise, or (ii) ownership of fifty percent (50%) or more of the
 * outstanding shares, or (iii) beneficial ownership of such entity.
 *
```

\* "You" (or "Your") shall mean an individual or Legal Entity  
\* exercising permissions granted by this License.  
\*

\* "Source" form shall mean the preferred form for making modifications,  
\* including but not limited to software source code, documentation  
\* source, and configuration files.  
\*

\* "Object" form shall mean any form resulting from mechanical  
\* transformation or translation of a Source form, including but  
\* not limited to compiled object code, generated documentation,  
\* and conversions to other media types.  
\*

\* "Work" shall mean the work of authorship, whether in Source or  
\* Object form, made available under the License, as indicated by a  
\* copyright notice that is included in or attached to the work  
\* (an example is provided in the Appendix below).  
\*

\* "Derivative Works" shall mean any work, whether in Source or Object  
\* form, that is based on (or derived from) the Work and for which the  
\* editorial revisions, annotations, elaborations, or other modifications  
\* represent, as a whole, an original work of authorship. For the purposes  
\* of this License, Derivative Works shall not include works that remain  
\* separable from, or merely link (or bind by name) to the interfaces of,  
\* the Work and Derivative Works thereof.  
\*

\* "Contribution" shall mean any work of authorship, including  
\* the original version of the Work and any modifications or additions  
\* to that Work or Derivative Works thereof, that is intentionally  
\* submitted to Licensor for inclusion in the Work by the copyright owner  
\* or by an individual or Legal Entity authorized to submit on behalf of  
\* the copyright owner. For the purposes of this definition, "submitted"  
\* means any form of electronic, verbal, or written communication sent  
\* to the Licensor or its representatives, including but not limited to  
\* communication on electronic mailing lists, source code control systems,  
\* and issue tracking systems that are managed by, or on behalf of, the  
\* Licensor for the purpose of discussing and improving the Work, but  
\* excluding communication that is conspicuously marked or otherwise  
\* designated in writing by the copyright owner as "Not a Contribution."  
\*

\* "Contributor" shall mean Licensor and any individual or Legal Entity  
\* on behalf of whom a Contribution has been received by Licensor and  
\* subsequently incorporated within the Work.  
\*

\* 2. Grant of Copyright License. Subject to the terms and conditions of  
\* this License, each Contributor hereby grants to You a perpetual,  
\* worldwide, non-exclusive, no-charge, royalty-free, irrevocable  
\* copyright license to reproduce, prepare Derivative Works of,  
\* publicly display, publicly perform, sublicense, and distribute the

- \* Work and such Derivative Works in Source or Object form.
- \*
- \* 3. Grant of Patent License. Subject to the terms and conditions of
- \* this License, each Contributor hereby grants to You a perpetual,
- \* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
- \* (except as stated in this section) patent license to make, have made,
- \* use, offer to sell, sell, import, and otherwise transfer the Work,
- \* where such license applies only to those patent claims licensable
- \* by such Contributor that are necessarily infringed by their
- \* Contribution(s) alone or by combination of their Contribution(s)
- \* with the Work to which such Contribution(s) was submitted. If You
- \* institute patent litigation against any entity (including a
- \* cross-claim or counterclaim in a lawsuit) alleging that the Work
- \* or a Contribution incorporated within the Work constitutes direct
- \* or contributory patent infringement, then any patent licenses
- \* granted to You under this License for that Work shall terminate
- \* as of the date such litigation is filed.
- \*
- \* 4. Redistribution. You may reproduce and distribute copies of the
- \* Work or Derivative Works thereof in any medium, with or without
- \* modifications, and in Source or Object form, provided that You
- \* meet the following conditions:
- \*
- \* (a) You must give any other recipients of the Work or
- \* Derivative Works a copy of this License; and
- \*
- \* (b) You must cause any modified files to carry prominent notices
- \* stating that You changed the files; and
- \*
- \* (c) You must retain, in the Source form of any Derivative Works
- \* that You distribute, all copyright, patent, trademark, and
- \* attribution notices from the Source form of the Work,
- \* excluding those notices that do not pertain to any part of
- \* the Derivative Works; and
- \*
- \* (d) If the Work includes a "NOTICE" text file as part of its
- \* distribution, then any Derivative Works that You distribute must
- \* include a readable copy of the attribution notices contained
- \* within such NOTICE file, excluding those notices that do not
- \* pertain to any part of the Derivative Works, in at least one
- \* of the following places: within a NOTICE text file distributed
- \* as part of the Derivative Works; within the Source form or
- \* documentation, if provided along with the Derivative Works; or,
- \* within a display generated by the Derivative Works, if and
- \* wherever such third-party notices normally appear. The contents
- \* of the NOTICE file are for informational purposes only and
- \* do not modify the License. You may add Your own attribution
- \* notices within Derivative Works that You distribute, alongside



\*       or as an addendum to the NOTICE text from the Work, provided  
\*       that such additional attribution notices cannot be construed  
\*       as modifying the License.

\*  
\*       You may add Your own copyright statement to Your modifications and  
\*       may provide additional or different license terms and conditions  
\*       for use, reproduction, or distribution of Your modifications, or  
\*       for any such Derivative Works as a whole, provided Your use,  
\*       reproduction, and distribution of the Work otherwise complies with  
\*       the conditions stated in this License.

\*  
\*       5. Submission of Contributions. Unless You explicitly state otherwise,  
\*       any Contribution intentionally submitted for inclusion in the Work  
\*       by You to the Licensor shall be under the terms and conditions of  
\*       this License, without any additional terms or conditions.  
\*       Notwithstanding the above, nothing herein shall supersede or modify  
\*       the terms of any separate license agreement you may have executed  
\*       with Licensor regarding such Contributions.

\*  
\*       6. Trademarks. This License does not grant permission to use the trade  
\*       names, trademarks, service marks, or product names of the Licensor,  
\*       except as required for reasonable and customary use in describing the  
\*       origin of the Work and reproducing the content of the NOTICE file.

\*  
\*       7. Disclaimer of Warranty. Unless required by applicable law or  
\*       agreed to in writing, Licensor provides the Work (and each  
\*       Contributor provides its Contributions) on an "AS IS" BASIS,  
\*       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or  
\*       implied, including, without limitation, any warranties or conditions  
\*       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A  
\*       PARTICULAR PURPOSE. You are solely responsible for determining the  
\*       appropriateness of using or redistributing the Work and assume any  
\*       risks associated with Your exercise of permissions under this License.

\*  
\*       8. Limitation of Liability. In no event and under no legal theory,  
\*       whether in tort (including negligence), contract, or otherwise,  
\*       unless required by applicable law (such as deliberate and grossly  
\*       negligent acts) or agreed to in writing, shall any Contributor be  
\*       liable to You for damages, including any direct, indirect, special,  
\*       incidental, or consequential damages of any character arising as a  
\*       result of this License or out of the use or inability to use the  
\*       Work (including but not limited to damages for loss of goodwill,  
\*       work stoppage, computer failure or malfunction, or any and all  
\*       other commercial damages or losses), even if such Contributor  
\*       has been advised of the possibility of such damages.

\*  
\*       9. Accepting Warranty or Additional Liability. While redistributing  
\*       the Work or Derivative Works thereof, You may choose to offer,

\* and charge a fee for, acceptance of support, warranty, indemnity,  
\* or other liability obligations and/or rights consistent with this  
\* License. However, in accepting such obligations, You may act only  
\* on Your own behalf and on Your sole responsibility, not on behalf  
\* of any other Contributor, and only if You agree to indemnify,  
\* defend, and hold each Contributor harmless for any liability  
\* incurred by, or claims asserted against, such Contributor by reason  
\* of your accepting any such warranty or additional liability.

\* END OF TERMS AND CONDITIONS

\* APPENDIX: How to apply the Apache License to your work.

\* To apply the Apache License to your work, attach the following  
\* boilerplate notice, with the fields enclosed by brackets "[ ]"  
\* replaced with your own identifying information. (Don't include  
\* the brackets!) The text should be enclosed in the appropriate  
\* comment syntax for the file format. We also recommend that a  
\* file or class name and description of purpose be included on the  
\* same "printed page" as the copyright notice for easier  
\* identification within third-party archives.

\* Copyright [yyyy] [name of copyright owner]

\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\* <http://www.apache.org/licenses/LICENSE-2.0>

\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.

\*/

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====

## SPRING FRAMEWORK 4.1.1.RELEASE SUBCOMPONENTS:

Spring Framework 4.1.1.RELEASE includes a number of subcomponents with separate copyright notices and license terms. The product that includes this file does not necessarily use all the open source subcomponents referred to below. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

>>> ASM 4.0 (org.ow2.asm:asm:4.0, org.ow2.asm:asm-commons:4.0):

Copyright (c) 2000-2011 INRIA, France Telecom  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <<http://www.ow2.org/>>

>>> CGLIB 3.0 (cglib:cglib:3.0):

Per the LICENSE file in the CGLIB JAR distribution downloaded from

<http://sourceforge.net/projects/cglib/files/cglib3/3.0/cglib-3.0.jar/download>,  
CGLIB 3.0 is licensed under the Apache License, version 2.0, the text of which  
is included above.

=====  
To the extent any open source subcomponents are licensed under the EPL and/or  
other similar licenses that require the source code and/or modifications to  
source code to be made available (as would be noted above), you may obtain a  
copy of the source code corresponding to the binaries for such open source  
components and modifications thereto, if any, (the "Source Files"), by  
downloading the Source Files from <http://www.springsource.org/download>, or by  
sending a request, with your name and address to:

Pivotal, Inc., 875 Howard St,  
San Francisco, CA 94103  
United States of America

or email [info@gopivotal.com](mailto:info@gopivotal.com). All such requests should clearly specify:

OPEN SOURCE FILES REQUEST  
Attention General Counsel

Pivotal shall mail a copy of the Source Files to you on a CD or equivalent  
physical medium. This offer to obtain a copy of the Source Files is valid for  
three years from the date you acquired this Software product.  
This software is released under a BSD license, adapted from  
<<http://opensource.org/licenses/BSD-3-Clause>>

Copyright (c) 2004-2011 Brian M. Clapper.  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice,  
this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice,  
this list of conditions and the following disclaimer in the documentation  
and/or other materials provided with the distribution.
- \* Neither the name "clapper.org", "clapper.org Java Utility Library", nor  
the names of its contributors may be used to endorse or promote products  
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"



AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

All of the source code and documentation that has been developed by the Scala STM Expert Group is available under a modified-BSD license.

Copyright (c) 2009-2012 Stanford University, unless otherwise specified.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the Stanford University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL STANFORD UNIVERSITY BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License

=====

The MIT License (MIT)

Copyright (c) 2014 Li Haoyi (haoyi.sg@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2000-2011 INRIA, France Telecom  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

## 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

## 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

## 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the

function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of

the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

#### 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

#### 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version

of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

---

#### SPECIAL EXCEPTION GRANTED BY COPYRIGHT HOLDERS

As a special exception, copyright holders give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you must extend this exception to your version of the library.

---

Parts of the software are licensed under the MIT (X11) license as follows:

Copyright (c) 2007-2010 Contributors as listed in AUTHORS

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009-2014 Tony Morris, Runar Bjarnason, Tom Adams, Kristian Domagala, Brad Clow, Ricky Clarkson, Paul Chiusano, Trygve Laugstl, Nick Partridge, Jason Zaugg  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2002-2016 EPFL

Copyright (c) 2011-2016 Lightbend, Inc. (formerly Typesafe, Inc.)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR

ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
<!DOCTYPE html>
<html lang="en" class="">
  <head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# object: http://ogp.me/ns/object# article:
http://ogp.me/ns/article# profile: http://ogp.me/ns/profile#">
    <meta charset='utf-8'>

    <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-
473733caf98c6c528c9ddeb25f5830e456cb75553a54d79c8c3296648555f848.css" media="all" rel="stylesheet" />
    <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-
9366a97c2c7a861b73bf6d1bf3b461762a103f28da88b1a7612bd0a7d26c3542.css" media="all" rel="stylesheet" />

    <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-
2d5d1699983d8dd7c384c67dfc183fbace8e3a24866e8822069d599f68e71fb2.css" media="all" rel="stylesheet" />

    <link as="script" href="https://assets-cdn.github.com/assets/frameworks-
9eb0ddac6d1c94c56980360abcade2abb10d27d7880f7ee7bf6640c2c2a06fc8.js" rel="preload" />

    <link as="script" href="https://assets-cdn.github.com/assets/github-
4ddb43ff9bf343ea4e58a83f44f72427d4c0e030722f47eb6ea4d231abfa161.js" rel="preload" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta http-equiv="Content-Language" content="en">
    <meta name="viewport" content="width=1020">

    <title>jline2/LICENSE.txt at master · jline/jline2 · GitHub</title>
    <link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
    <link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
    <link rel="apple-touch-icon" href="/apple-touch-icon.png">
    <link rel="apple-touch-icon" sizes="57x57" href="/apple-touch-icon-57x57.png">
    <link rel="apple-touch-icon" sizes="60x60" href="/apple-touch-icon-60x60.png">
    <link rel="apple-touch-icon" sizes="72x72" href="/apple-touch-icon-72x72.png">
    <link rel="apple-touch-icon" sizes="76x76" href="/apple-touch-icon-76x76.png">
    <link rel="apple-touch-icon" sizes="114x114" href="/apple-touch-icon-114x114.png">
    <link rel="apple-touch-icon" sizes="120x120" href="/apple-touch-icon-120x120.png">
    <link rel="apple-touch-icon" sizes="144x144" href="/apple-touch-icon-144x144.png">
```



```
<link rel="apple-touch-icon" sizes="152x152" href="/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/apple-touch-icon-180x180.png">
<meta property="fb:app_id" content="1401488693436528">

<meta content="https://avatars0.githubusercontent.com/u/711075?v=3&s=400" name="twitter:image:src"
/><meta content="@github" name="twitter:site" /><meta content="summary" name="twitter:card" /><meta
content="jline/jline2" name="twitter:title" /><meta content="jline2 - The new Jline" name="twitter:description" />
<meta content="https://avatars0.githubusercontent.com/u/711075?v=3&s=400" property="og:image" /><meta
content="GitHub" property="og:site_name" /><meta content="object" property="og:type" /><meta
content="jline/jline2" property="og:title" /><meta content="https://github.com/jline/jline2" property="og:url"
/><meta content="jline2 - The new Jline" property="og:description" />
<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">
<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
<link rel="assets" href="https://assets-cdn.github.com/">

<meta name="pjax-timeout" content="1000">

<meta name="msapplication-TileImage" content="/windows-tile.png">
<meta name="msapplication-TileColor" content="#ffffff">
<meta name="selected-link" value="repo_source" data-pjax-transient>

<meta name="google-site-verification" content="KT5gs8h0wvaagLKAVWq8bbeNwnZZK1r1XQysX3xurLU">
<meta name="google-site-verification" content="ZzhVyEFwb7w3e0-uOTlrm8Jsck2F5StVihD0exw2fsA">
<meta name="google-analytics" content="UA-3769691-2">

<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-
id" /><meta content="20616E3D:53FA:738C7BF:57080DF6" name="octolytics-dimension-request_id" />
<meta content="/<user-name>/<repo-name>/blob/show" data-pjax-transient="true" name="analytics-location" />

<meta class="js-ga-set" name="dimension1" content="Logged Out">

<meta name="hostname" content="github.com">
<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">
<meta name="js-proxy-site-detection-payload"
content="YmM4YTBMNGFjMmQ4YTU5ZjBmNWY3OGRjNDExZjdjY2NiYmM5ZGRjMWNjNjYwZGIyOGVl
N2VkOTU3OGIwNjY1M3x7InJlbW90ZV9hZGRyZXNzIjoiMzIuOTcuMTEwLjYxIiwicmVudWVzdF9pZCI6IjIw
NjE2RTNEOjUzRkE6NmM4QzdCRjo1NzA4MERGNiIsInRpbWVzdGFtcCI6MTQ2MDE0NTY1NX0=">

<link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#4078c0">
<link rel="icon" type="image/x-icon" href="https://assets-cdn.github.com/favicon.ico">
```

<meta content="3b1abb444783abf3f89144ac1f8fecf1948d5587" name="form-nonce" />

<meta http-equiv="x-pjax-version" content="97338dab10e3d7ee1da8a3fa3ab55a04">

<meta name="description" content="jline2 - The new Jline">

<meta name="go-import" content="github.com/jline/jline2 git https://github.com/jline/jline2.git">

<meta content="711075" name="octolytics-dimension-user\_id" /><meta content="jline" name="octolytics-dimension-user\_login" /><meta content="1577604" name="octolytics-dimension-repository\_id" /><meta content="jline/jline2" name="octolytics-dimension-repository\_nwo" /><meta content="true" name="octolytics-dimension-repository\_public" /><meta content="false" name="octolytics-dimension-repository\_is\_fork" /><meta content="1577604" name="octolytics-dimension-repository\_network\_root\_id" /><meta content="jline/jline2" name="octolytics-dimension-repository\_network\_root\_nwo" />

<link href="https://github.com/jline/jline2/commits/master.atom" rel="alternate" title="Recent Commits to jline2:master" type="application/atom+xml">

<link rel="canonical" href="https://github.com/jline/jline2/blob/master/LICENSE.txt" data-pjax-transient>  
</head>

<body class="logged-out env-production vis-public page-blob">

<div id="js-pjax-loader-bar" class="pjax-loader-bar"></div>

<a href="#start-of-content" tabindex="1" class="accessibility-aid js-skip-to-content">Skip to content</a>

<header class="site-header js-details-container" role="banner">

<div class="container-responsive">

<a class="header-logo-invertocat" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out) Header, go to homepage, icon:logo-wordmark">

<svg aria-hidden="true" class="octicon octicon-mark-github" height="32" version="1.1" viewBox="0 0 16 16" width="32"><path d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 0.4 0.07 0.55-0.17 0.55-0.38 0-0.19-0.01-0.82-0.01-1.49-2.01 0.37-2.53-0.49-2.69-0.94-0.09-0.23-0.48-0.94-0.82-1.13-0.28-0.15-0.68-0.52-0.01-0.53 0.63-0.01 1.08 0.58 1.23 0.82 0.72 1.21 1.87 0.87 2.33 0.66 0.07-0.52 0.28-0.87 0.51-1.07-1.78-0.2-3.64-0.89-3.64-3.95 0-0.87 0.31-1.59 0.82-2.15-0.08-0.2-0.36-1.02 0.08-2.12 0 0 0.67-0.21 2.2 0.82 0.64-0.18 1.32-0.27 2-0.27 0.68 0 1.36 0.09 2 0.27 1.53-1.04 2.2-0.82 2.2-0.82 0.44 1.1 0.16 1.92 0.08 2.12 0.51 0.56 0.82 1.27 0.82 2.15 0 3.07-1.87 3.75-3.65 3.95 0.29 0.25 0.54 0.73 0.54 1.48 0 1.07-0.01 1.93-0.01 2.2 0 0.21 0.15 0.46 0.55 0.38C13.71 14.53 16 11.53 16 8 16 3.58 12.42 0 8 0z"></path></svg>

</a>

<button class="btn-link right site-header-toggle js-details-target" type="button" aria-label="Toggle navigation">

```
<svg aria-hidden="true" class="octicon octicon-three-bars" height="24" version="1.1" viewBox="0 0 12 16"
width="18"><path d="M11.41 9H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59
1z m0-4H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59 1zM0.59
11h10.81c0.59 0 0.59 0.41 0.59 1s0 1-0.59 1H0.59c-0.59 0-0.59-0.41-0.59-1s0-1 0.59-1z"></path></svg>
</button>
```

```
<div class="site-header-menu">
  <nav class="site-header-nav site-header-nav-main">
    <a href="/personal" class="js-selected-navigation-item nav-item nav-item-personal" data-ga-click="Header,
click, Nav menu - item:personal" data-selected-links="/personal/personal">
      Personal
    </a>
    <a href="/open-source" class="js-selected-navigation-item nav-item nav-item-opensource" data-ga-
click="Header, click, Nav menu - item:opensource" data-selected-links="/open-source /open-source">
      Open source
    </a>
    <a href="/business" class="js-selected-navigation-item nav-item nav-item-business" data-ga-
click="Header, click, Nav menu - item:business" data-selected-links="/business /business/features
/business/customers /business">
      Business
    </a>
    <a href="/explore" class="js-selected-navigation-item nav-item nav-item-explore" data-ga-click="Header,
click, Nav menu - item:explore" data-selected-links="/explore /trending /trending/developers /integrations
/integrations/feature/code /integrations/feature/collaborate /integrations/feature/ship /explore">
      Explore
    </a>
  </nav>
```

```
<div class="site-header-actions">
  <a class="btn btn-primary site-header-actions-btn" href="/join?source=header-repo" data-ga-click="(Logged
out) Header, clicked Sign up, text:sign-up">Sign up</a>
  <a class="btn site-header-actions-btn mr-2"
href="/login?return_to=%2Fjline%2Fjline%2Fblob%2Fmaster%2FLICENSE.txt" data-ga-click="(Logged out)
Header, clicked Sign in, text:sign-in">Sign in</a>
</div>
```

```
<nav class="site-header-nav site-header-nav-secondary">
  <a class="nav-item" href="/pricing">Pricing</a>
  <a class="nav-item" href="/blog">Blog</a>
  <a class="nav-item" href="https://help.github.com">Support</a>
  <a class="nav-item header-search-link" href="https://github.com/search">Search GitHub</a>
  <div class="header-search scoped-search site-scoped-search js-site-search" role="search">
    <!-- </textarea> --><!-- "" --><form accept-charset="UTF-8" action="/jline/jline2/search" class="js-site-search-
form" data-scoped-search-url="/jline/jline2/search" data-unscooped-search-url="/search" method="get"><div
style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="&#x2713;" /></div>
<label class="form-control header-search-wrapper js-chromeless-input-container">
  <div class="header-search-scope">This repository</div>
  <input type="text"
class="form-control header-search-input js-site-search-focus js-site-search-field is-clearable"
data-hotkey="s"
name="q"
placeholder="Search"
```

```
    aria-label="Search this repository"
    data-unscoped-placeholder="Search GitHub"
    data-scoped-placeholder="Search"
    tabindex="1"
    autocapitalize="off">
  </label>
</form></div>
```

```
  </nav>
</div>
</div>
</header>
```

```
<div id="start-of-content" class="accessibility-aid"></div>
```

```
  <div id="js-flash-container">
</div>
```

```
<div role="main" class="main-content">
  <div itemscope itemtype="http://schema.org/SoftwareSourceCode">
    <div id="js-repo-pjax-container" data-pjax-container>
```

```
<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav">
  <div class="container repohead-details-container">
```

```
<ul class="pagehead-actions">
```

```
  <li>
    <a href="/login?return_to=%2Fjline%2Fjline2"
      class="btn btn-sm btn-with-count tooltipped tooltipped-n"
      aria-label="You must be signed in to watch a repository" rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-eye" height="16" version="1.1" viewBox="0 0 16 16"
        width="16"><path d="M8.06 2C3 2 0 8 0 8s3 6 8.06 6c4.94 0 7.94-6 7.94-6S13 2 8.06 2z m-0.06 10c-2.2 0-4-1.78-
        4-4 0-2.2 1.8-4 4-2.22 0 4 1.8 4 0 2.22-1.78 4-4 4z m2-4c0 1.11-0.89 2-2 2s-2-0.89-2-2 2-2 2 0.89 2
        2z"></path></svg>
      Watch
    </a>
    <a class="social-count" href="/jline/jline2/watchers">
      52
    </a>
  </li>
```

```
<li>
  <a href="/login?return_to=%2Fjline%2Fjline2"
    class="btn btn-sm btn-with-count tooltiped tooltiped-n"
    aria-label="You must be signed in to star a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
      width="14"><path d="M14 6l-4.9-0.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14l4.33-2.33 4.33 2.33L10.4 9.26 14
      6z"></path></svg>
    Star
  </a>
```

```
<a class="social-count js-social-count" href="/jline/jline2/stargazers">
  516
</a>
```

```
</li>
```

```
<li>
  <a href="/login?return_to=%2Fjline%2Fjline2"
    class="btn btn-sm btn-with-count tooltiped tooltiped-n"
    aria-label="You must be signed in to fork a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
      width="10"><path d="M8 1c-1.11 0-2 0.89-2 2 0 0.73 0.41 1.38 1 1.72v1.28L5 8 3 6v-1.28c0.59-0.34 1-0.98 1-1.72
      0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72v1.78l3 3v1.78c-0.59 0.34-1 0.98-1 1.72 0 1.11 0.89 2 2 2s2-
      0.89 2-2c0-0.73-0.41-1.38-1-1.72V9.5l3-3V4.72c0.59-0.34 1-0.98 1-1.72 0-1.11-0.89-2-2-2zM2 4.2c-0.66 0-1.2-
      0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2z m3 10c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2
      0.55 1.2 1.2-0.55 1.2-1.2 1.2z m3-10c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2
      1.2z"></path></svg>
    Fork
  </a>
```

```
<a href="/jline/jline2/network" class="social-count">
  143
</a>
```

```
</li>
```

```
</ul>
```

```
<h1 class="entry-title public ">
  <svg aria-hidden="true" class="octicon octicon-repo" height="16" version="1.1" viewBox="0 0 12 16"
    width="12"><path d="M4 9h-1v-1h1v1z m0-3h-1v1h1v-1z m0-2h-1v1h1v-1z m0-2h-1v1h1v-1z m8-1v12c0 0.55-
    0.45 1-1 1H6v2l-1.5-1.5-1.5 1.5V14H1c-0.55 0-1-0.45-1-1V1C0 0.45 0 1 0h10c0.55 0 1 0.45 1 1z m-1
    10H1v2h2v-1h3v1h5V11z m0-10H2v9h9V1z"></path></svg>
  <span class="author" itemprop="author"><a href="/jline" class="url fn" rel="author">jline</a></span><!--
  --><span class="path-divider"></span><!--
  --><strong itemprop="name"><a href="/jline/jline2" data-pjax="#js-repo-pjax-container">jline2</a></strong>
```

```
</h1>
```

```
</div>
```

<div class="container">

<nav class="reponav js-repo-nav js-sidenav-container-pjax"  
 itemscope  
 itemtype="http://schema.org/BreadcrumbList"  
 role="navigation"  
 data-pjax="#js-repo-pjax-container">

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">  
 <a href="/jline/jline2" aria-selected="true" class="js-selected-navigation-item selected reponav-item" data-hotkey="g c" data-selected-links="repo\_source repo\_downloads repo\_commits repo\_releases repo\_tags repo\_branches /jline/jline2" itemprop="url">  
 <svg aria-hidden="true" class="octicon octicon-code" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M9.5 3l-1.5 1.5 3.5 3.5L8 11.5l1.5 1.5 4.5-5L9.5 3zM4.5 3L0 3L0 4.5 3 8 4.5 3z"></path></svg>  
 <span itemprop="name">Code</span>  
 <meta itemprop="position" content="1">  
</a> </span>

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">  
 <a href="/jline/jline2/issues" class="js-selected-navigation-item reponav-item" data-hotkey="g i" data-selected-links="repo\_issues repo\_labels repo\_milestones /jline/jline2/issues" itemprop="url">  
 <svg aria-hidden="true" class="octicon octicon-issue-opened" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7S10.14 13.7 7 13.7 1.3 11.14 1.3 8s2.56-5.7 5.7-5.7m0-1.3C3.14 1 0 4.14 0 8s3.14 7 7 7-3.14 7-7S10.86 1 7 1z m1 3H6v5h2V4z m0 6H6v2h2V10z"></path></svg>  
 <span itemprop="name">Issues</span>  
 <span class="counter">42</span>  
 <meta itemprop="position" content="2">  
</a> </span>

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">  
 <a href="/jline/jline2/pulls" class="js-selected-navigation-item reponav-item" data-hotkey="g p" data-selected-links="repo\_pulls /jline/jline2/pulls" itemprop="url">  
 <svg aria-hidden="true" class="octicon octicon-git-pull-request" height="16" version="1.1" viewBox="0 0 12 16" width="12"><path d="M11 11.28c0-1.73 0-6.28 0-6.28-0.03-0.78-0.34-1.47-0.94-2.06s-1.28-0.91-2.06-0.94c0-1.02 0-1 0V0L4 3l3V4h1c0.27 0.02 0.48 0.11 0.69 0.31s0.3 0.42 0.31 0.69v6.28c-0.59 0.34-1 0.98-1 1.72 0 1.11 0.89 2 2 2s2-0.89 2-2c0-0.73-0.41-1.38-1-1.72z m-1 2.92c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2zM4 3c0-1.11-0.89-2-2-2S0 1.89 0 3c0 0.73 0.41 1.38 1 1.72 0 1.55 0 5.56 0 6.56-0.59 0.34-1 0.98-1 1.72 0 1.11 0.89 2 2 2s2-0.89 2-2c0-0.73-0.41-1.38-1-1.72V4.72c0.59-0.34 1-0.98 1-1.72z m-0.8 10c0 0.66-0.55 1.2-1.2 1.2s-1.2-0.55-1.2-1.2 1.2-1.2 1.2 0.55 1.2 1.2z m-1.2-8.8c-0.66 0-1.2-0.55-1.2-1.2s0.55-1.2 1.2-1.2 1.2 0.55 1.2 1.2-0.55 1.2-1.2 1.2z"></path></svg>  
 <span itemprop="name">Pull requests</span>  
 <span class="counter">10</span>  
 <meta itemprop="position" content="3">  
</a> </span>

<a href="/jline/jline2/wiki" class="js-selected-navigation-item reponav-item" data-hotkey="g w" data-selected-links="repo\_wiki /jline/jline2/wiki">

```
<svg aria-hidden="true" class="octicon octicon-book" height="16" version="1.1" viewBox="0 0 16 16" width="16"><path d="M2 5h4v1H2v-1z m0 3h4v-1H2v1z m0 2h4v-1H2v1z m1 1-5H9v1h4v-1z m0 2H9v1h4v-1z m0 2H9v1h4v-1z m2-6v9c0 0.55-0.45 1-1 1H8.5l-1 1-1-1H1c-0.55 0-1-0.45-1-1V3c0-0.55 0.45-1 1-1h5.5l1 1-1h5.5c0.55 0 1 0.45 1 1z m-8 0.5l-0.5-0.5H1v9h6V3.5z m7-0.5H8.5l-0.5 0.5v8.5h6V3z"></path></svg>
```

Wiki

```
</a>
```

```
<a href="/jline/jline2/pulse" class="js-selected-navigation-item reponav-item" data-selected-links="pulse /jline/jline2/pulse">
```

```
<svg aria-hidden="true" class="octicon octicon-pulse" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path d="M11.5 8L8.8 5.4 6.6 8.5 5.5 1.6 2.38 8H0V10h3.6L4.5 8.2l0.9 5.4L9 8.5l1.6 1.5H14V8H11.5z"></path></svg>
```

Pulse

```
</a>
```

```
<a href="/jline/jline2/graphs" class="js-selected-navigation-item reponav-item" data-selected-links="repo_graphs repo_contributors /jline/jline2/graphs">
```

```
<svg aria-hidden="true" class="octicon octicon-graph" height="16" version="1.1" viewBox="0 0 16 16" width="16"><path d="M16 14v1H0V0h1v14h15z m-1 1-1H3V8h2v5z m4 0H7V3h2v10z m4 0H11V6h2v7z"></path></svg>
```

Graphs

```
</a>
```

```
</nav>
```

```
</div>
```

```
</div>
```

```
<div class="container new-discussion-timeline experiment-repo-nav">
```

```
<div class="repository-content">
```

```
<a href="/jline/jline2/blob/11a3808f302b945d0cc424536299a9c96ccc996f/LICENSE.txt" class="hidden js-permalink-shortcut" data-hotkey="y">Permalink</a>
```

```
<!-- blob contrib key: blob_contributors:v21:867b3fde20872fa09c2b14d3375ca729 -->
```

```
<div class="file-navigation js-zeroclipboard-container">
```

```
<div class="select-menu js-menu-container js-select-menu left">
```

```
<button class="btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"
```

```
title="master"
```

```
type="button" aria-label="Switch branches or tags" tabindex="0" aria-haspopup="true">
```

```
<i>Branch:</i>
```

```
<span class="js-select-button css-truncate-target">master</span>
```

```
</button>
```

```
<div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax aria-hidden="true">
```

```

<div class="select-menu-modal">
  <div class="select-menu-header">
    <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M7.48 813.75 3.75-1.48 1.48-3.75-3.75-3.75 3.75-1.48-1.48 3.75-
3.75L0.77 4.2511.48-1.48 3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
    <span class="select-menu-title">Switch branches/tags</span>
  </div>

  <div class="select-menu-filters">
    <div class="select-menu-text-filter">
      <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
    </div>
    <div class="select-menu-tabs">
      <ul>
        <li class="select-menu-tab">
          <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
tab" role="tab">Branches</a>
        </li>
        <li class="select-menu-tab">
          <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag" class="js-select-menu-tab"
role="tab">Tags</a>
        </li>
      </ul>
    </div>
  </div>

  <div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
role="menu">

  <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

    <a class="select-menu-item js-navigation-item js-navigation-open "
href="/jline/jline2/blob/consistent-license-headers/LICENSE.txt"
data-name="consistent-license-headers"
data-skip-pjax="true"
rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 911.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
      <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="consistent-license-
headers">
        consistent-license-headers
      </span>
    </a>
    <a class="select-menu-item js-navigation-item js-navigation-open "
href="/jline/jline2/blob/gh-pages/LICENSE.txt"
data-name="gh-pages"

```



```

    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="gh-pages">
      gh-pages
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/blob/jline3/LICENSE.txt"
    data-name="jline3"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="jline3">
      jline3
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open selected"
    href="/jline/jline2/blob/master/LICENSE.txt"
    data-name="master"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="master">
      master
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/blob/non_bmp_characters/LICENSE.txt"
    data-name="non_bmp_characters"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text"
title="non_bmp_characters">
      non_bmp_characters
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/blob/vi-cleanup/LICENSE.txt"
    data-name="vi-cleanup"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

```

viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="vi-cleanup">
    vi-cleanup
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/jline/jline2/blob/vi-search-fix/LICENSE.txt"
  data-name="vi-search-fix"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
  <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text" title="vi-search-fix">
    vi-search-fix
  </span>
</a>
</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
  <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/jline/jline2/tree/jline-2.14.1/LICENSE.txt"
      data-name="jline-2.14.1"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
      <span class="select-menu-item-text css-truncate-target" title="jline-2.14.1">
        jline-2.14.1
      </span>
    </a>
    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/jline/jline2/tree/jline-2.14/LICENSE.txt"
      data-name="jline-2.14"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
      <span class="select-menu-item-text css-truncate-target" title="jline-2.14">
        jline-2.14
      </span>
    </a>
    <a class="select-menu-item js-navigation-item js-navigation-open "

```

```
href="/jline/jline2/tree/jline-2.13/LICENSE.txt"
data-name="jline-2.13"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="jline-2.13">
  jline-2.13
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/jline/jline2/tree/jline-2.12.1/LICENSE.txt"
data-name="jline-2.12.1"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="jline-2.12.1">
  jline-2.12.1
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/jline/jline2/tree/jline-2.12/LICENSE.txt"
data-name="jline-2.12"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="jline-2.12">
  jline-2.12
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/jline/jline2/tree/jline-2.11/LICENSE.txt"
data-name="jline-2.11"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
<span class="select-menu-item-text css-truncate-target" title="jline-2.11">
  jline-2.11
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/jline/jline2/tree/jline-2.10/LICENSE.txt"
data-name="jline-2.10"
data-skip-pjax="true"
rel="nofollow">
```

```

    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.10">
      jline-2.10
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.9/LICENSE.txt"
    data-name="jline-2.9"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.9">
      jline-2.9
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.8/LICENSE.txt"
    data-name="jline-2.8"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.8">
      jline-2.8
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.7/LICENSE.txt"
    data-name="jline-2.7"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.7">
      jline-2.7
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.6/LICENSE.txt"
    data-name="jline-2.6"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9l1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.6">
      jline-2.6

```

```

    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.5/LICENSE.txt"
    data-name="jline-2.5"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.5">
      jline-2.5
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.4/LICENSE.txt"
    data-name="jline-2.4"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.4">
      jline-2.4
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.3/LICENSE.txt"
    data-name="jline-2.3"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.3">
      jline-2.3
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.2.1/LICENSE.txt"
    data-name="jline-2.2.1"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.2.1">
      jline-2.2.1
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.1/LICENSE.txt"

```

```

    data-name="jline-2.1"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.1">
      jline-2.1
    </span>
  </a>
  <a class="select-menu-item js-navigation-item js-navigation-open "
    href="/jline/jline2/tree/jline-2.0/LICENSE.txt"
    data-name="jline-2.0"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path d="M12 5L4 13 0 9 1.5-1.5 2.5 2.5 6.5-6.5 1.5 1.5z"></path></svg>
    <span class="select-menu-item-text css-truncate-target" title="jline-2.0">
      jline-2.0
    </span>
  </a>
</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

</div>
</div>
</div>

<div class="btn-group right">
  <a href="/jline/jline2/find/master"
    class="js-pjax-capture-input btn btn-sm"
    data-pjax
    data-hotkey="t">
    Find file
  </a>
  <button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button
tooltipped tooltipped-s" data-copied-hint="Copied!" type="button">Copy path</button>
</div>
<div class="breadcrumb js-zeroclipboard-target">
  <span class="repo-root js-repo-root"><span class="js-path-segment"><a
href="/jline/jline2"><span>jline2</span></a></span></span><span class="separator"></span><strong
class="final-path">LICENSE.txt</strong>
</div>
</div>

<div class="commit-tease">

```

```

<span class="right">
  <a class="commit-tease-sha" href="/jline/jline2/commit/f9b8398fa92b7de099ab9dd27b83b86239cc0516" data-
  pjax>
    f9b8398
  </a>
  <time datetime="2016-03-14T10:57:48Z" is="relative-time">Mar 14, 2016</time>
</span>
<div>
  
  <a href="/gnodet" class="user-mention" rel="contributor">gnodet</a>
  <a href="/jline/jline2/commit/f9b8398fa92b7de099ab9dd27b83b86239cc0516" class="message" data-
  pjax="true" title="Update copyright">Update copyright</a>
</div>

<div class="commit-tease-contributors">
  <button type="button" class="btn-link muted-link contributors-toggle" data-facebox="#blob_contributors_box">
  <strong>2</strong>
  contributors
</button>
  <a class="avatar-link tooltipped tooltipped-s" aria-label="gnodet"
  href="/jline/jline2/commits/master/LICENSE.txt?author=gnodet"> </a>
  <a class="avatar-link tooltipped tooltipped-s" aria-label="jdillon"
  href="/jline/jline2/commits/master/LICENSE.txt?author=jdillon"> </a>

</div>

<div id="blob_contributors_box" style="display:none">
  <h2 class="facebox-header" data-facebox-id="facebox-header">Users who have contributed to this file</h2>
  <ul class="facebox-user-list" data-facebox-id="facebox-description">
    <li class="facebox-user-list-item">
      
      <a href="/gnodet">gnodet</a>
    </li>
    <li class="facebox-user-list-item">
      
      <a href="/jdillon">jdillon</a>
    </li>
  </ul>
</div>
</div>

<div class="file">

```

```

<div class="file-header">
<div class="file-actions">

<div class="btn-group">
  <a href="/jline/jline2/raw/master/LICENSE.txt" class="btn btn-sm " id="raw-url">Raw</a>
  <a href="/jline/jline2/blame/master/LICENSE.txt" class="btn btn-sm js-update-url-with-hash">Blame</a>
  <a href="/jline/jline2/commits/master/LICENSE.txt" class="btn btn-sm " rel="nofollow">History</a>
</div>

  <button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
    aria-label="You must be signed in to make or propose changes">
    <svg aria-hidden="true" class="octicon octicon-pencil" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path d="M0 12v3h3l8-8-3-3L0 12z m3 2H1V12h1v1h1v1z m10.3-9.3l-1.3 1.3-3-3 1.3-1.3c0.39-0.39
1.02-0.39 1.41 0l1.59 1.59c0.39 0.39 0.39 1.02 0 1.41z"></path></svg>
  </button>
  <button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
    aria-label="You must be signed in to make or propose changes">
    <svg aria-hidden="true" class="octicon octicon-trashcan" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M10 2H8c0-0.55-0.45-1-1-1H4c-0.55 0-1 0.45-1 1H1c-0.55 0-1 0.45-1 1v1c0 0.55 0.45 1 1
1v9c0 0.55 0.45 1 1 1h7c0.55 0 1-0.45 1-1V5c0.55 0 1-0.45 1-1v-1c0-0.55-0.45-1-1-1z m-1
12H2V5h1v8h1V5h1v8h1V5h1v9z m1-10H1v-1h9v1z"></path></svg>
  </button>
</div>

<div class="file-info">
  36 lines (28 sloc)
  <span class="file-info-divider"></span>
  1.5 KB
</div>
</div>

<div itemprop="text" class="blob-wrapper data type-text">
  <table class="highlight tab-size js-file-line-container" data-tab-size="8">
    <tr>
      <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
      <td id="LC1" class="blob-code blob-code-inner js-file-line">Copyright (c) 2002-2016, the original author or
authors.</td>
    </tr>
    <tr>
      <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
      <td id="LC2" class="blob-code blob-code-inner js-file-line">All rights reserved.</td>
    </tr>
    <tr>
      <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
      <td id="LC3" class="blob-code blob-code-inner js-file-line">

```



```

</td>
</tr>
<tr>
  <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
  <td id="LC4" class="blob-code blob-code-inner js-file-line">http://www.opensource.org/licenses/bsd-
license.php</td>
</tr>
<tr>
  <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
  <td id="LC5" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
  <td id="LC6" class="blob-code blob-code-inner js-file-line">Redistribution and use in source and binary forms,
with or</td>
</tr>
<tr>
  <td id="L7" class="blob-num js-line-number" data-line-number="7"></td>
  <td id="LC7" class="blob-code blob-code-inner js-file-line">without modification, are permitted provided that
the following</td>
</tr>
<tr>
  <td id="L8" class="blob-num js-line-number" data-line-number="8"></td>
  <td id="LC8" class="blob-code blob-code-inner js-file-line">conditions are met:</td>
</tr>
<tr>
  <td id="L9" class="blob-num js-line-number" data-line-number="9"></td>
  <td id="LC9" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L10" class="blob-num js-line-number" data-line-number="10"></td>
  <td id="LC10" class="blob-code blob-code-inner js-file-line">Redistributions of source code must retain the
above copyright</td>
</tr>
<tr>
  <td id="L11" class="blob-num js-line-number" data-line-number="11"></td>
  <td id="LC11" class="blob-code blob-code-inner js-file-line">notice, this list of conditions and the following
disclaimer.</td>
</tr>
<tr>
  <td id="L12" class="blob-num js-line-number" data-line-number="12"></td>
  <td id="LC12" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
  <td id="L13" class="blob-num js-line-number" data-line-number="13"></td>

```

```
<td id="LC13" class="blob-code blob-code-inner js-file-line">Redistributions in binary form must reproduce
the above copyright</td>
</tr>
<tr>
<td id="L14" class="blob-num js-line-number" data-line-number="14"></td>
<td id="LC14" class="blob-code blob-code-inner js-file-line">notice, this list of conditions and the following
disclaimer</td>
</tr>
<tr>
<td id="L15" class="blob-num js-line-number" data-line-number="15"></td>
<td id="LC15" class="blob-code blob-code-inner js-file-line">in the documentation and/or other materials
provided with</td>
</tr>
<tr>
<td id="L16" class="blob-num js-line-number" data-line-number="16"></td>
<td id="LC16" class="blob-code blob-code-inner js-file-line">the distribution.</td>
</tr>
<tr>
<td id="L17" class="blob-num js-line-number" data-line-number="17"></td>
<td id="LC17" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L18" class="blob-num js-line-number" data-line-number="18"></td>
<td id="LC18" class="blob-code blob-code-inner js-file-line">Neither the name of JLine nor the names of its
contributors</td>
</tr>
<tr>
<td id="L19" class="blob-num js-line-number" data-line-number="19"></td>
<td id="LC19" class="blob-code blob-code-inner js-file-line">may be used to endorse or promote products
derived from this</td>
</tr>
<tr>
<td id="L20" class="blob-num js-line-number" data-line-number="20"></td>
<td id="LC20" class="blob-code blob-code-inner js-file-line">software without specific prior written
permission.</td>
</tr>
<tr>
<td id="L21" class="blob-num js-line-number" data-line-number="21"></td>
<td id="LC21" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L22" class="blob-num js-line-number" data-line-number="22"></td>
<td id="LC22" class="blob-code blob-code-inner js-file-line">THIS SOFTWARE IS PROVIDED BY THE
COPYRIGHT HOLDERS AND CONTRIBUTORS</td>
</tr>
</tr>
```

<td id="L23" class="blob-num js-line-number" data-line-number="23"></td>  
<td id="LC23" class="blob-code blob-code-inner js-file-line">"AS IS" AND ANY EXPRESS OR IMPLIED  
WARRANTIES, INCLUDING,</td>  
</tr>  
<tr>  
<td id="L24" class="blob-num js-line-number" data-line-number="24"></td>  
<td id="LC24" class="blob-code blob-code-inner js-file-line">BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY</td>  
</tr>  
<tr>  
<td id="L25" class="blob-num js-line-number" data-line-number="25"></td>  
<td id="LC25" class="blob-code blob-code-inner js-file-line">AND FITNESS FOR A PARTICULAR  
PURPOSE ARE DISCLAIMED. IN NO</td>  
</tr>  
<tr>  
<td id="L26" class="blob-num js-line-number" data-line-number="26"></td>  
<td id="LC26" class="blob-code blob-code-inner js-file-line">EVENT SHALL THE COPYRIGHT OWNER  
OR CONTRIBUTORS BE LIABLE</td>  
</tr>  
<tr>  
<td id="L27" class="blob-num js-line-number" data-line-number="27"></td>  
<td id="LC27" class="blob-code blob-code-inner js-file-line">FOR ANY DIRECT, INDIRECT,  
INCIDENTAL, SPECIAL, EXEMPLARY,</td>  
</tr>  
<tr>  
<td id="L28" class="blob-num js-line-number" data-line-number="28"></td>  
<td id="LC28" class="blob-code blob-code-inner js-file-line">OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO,</td>  
</tr>  
<tr>  
<td id="L29" class="blob-num js-line-number" data-line-number="29"></td>  
<td id="LC29" class="blob-code blob-code-inner js-file-line">PROCUREMENT OF SUBSTITUTE GOODS  
OR SERVICES; LOSS OF USE,</td>  
</tr>  
<tr>  
<td id="L30" class="blob-num js-line-number" data-line-number="30"></td>  
<td id="LC30" class="blob-code blob-code-inner js-file-line">DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER CAUSED</td>  
</tr>  
<tr>  
<td id="L31" class="blob-num js-line-number" data-line-number="31"></td>  
<td id="LC31" class="blob-code blob-code-inner js-file-line">AND ON ANY THEORY OF LIABILITY,  
WHETHER IN CONTRACT, STRICT</td>  
</tr>  
<tr>  
<td id="L32" class="blob-num js-line-number" data-line-number="32"></td>  
<td id="LC32" class="blob-code blob-code-inner js-file-line">LIABILITY, OR TORT (INCLUDING  
NEGLIGENCE OR OTHERWISE) ARISING</td>

```
</tr>
<tr>
  <td id="L33" class="blob-num js-line-number" data-line-number="33"></td>
  <td id="LC33" class="blob-code blob-code-inner js-file-line">IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED</td>
</tr>
<tr>
  <td id="L34" class="blob-num js-line-number" data-line-number="34"></td>
  <td id="LC34" class="blob-code blob-code-inner js-file-line">OF THE POSSIBILITY OF SUCH
DAMAGE.</td>
</tr>
<tr>
  <td id="L35" class="blob-num js-line-number" data-line-number="35"></td>
  <td id="LC35" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
</table>
```

```
</div>
```

```
</div>
```

```
<button type="button" data-facebox="#jump-to-line" data-facebox-class="linejump" data-hotkey="l"
class="hidden">Jump to Line</button>
<div id="jump-to-line" style="display:none">
  <!-- </textarea> --><!-- "" --><form accept-charset="UTF-8" action="" class="js-jump-to-line-form"
method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden"
value="&#x2713;" /></div>
  <input class="form-control linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line&hellip;"
aria-label="Jump to line" autofocus>
  <button type="submit" class="btn">Go</button>
</form></div>
```

```
</div>
```

```
<div class="modal-backdrop"></div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="container site-footer-container">
<div class="site-footer" role="contentinfo">
<ul class="site-footer-links right">
  <li><a href="https://status.github.com/" data-ga-click="Footer, go to status, text:status">Status</a></li>
  <li><a href="https://developer.github.com" data-ga-click="Footer, go to api, text:api">API</a></li>
```

```
<li><a href="https://training.github.com" data-ga-click="Footer, go to training, text:training">Training</a></li>
<li><a href="https://shop.github.com" data-ga-click="Footer, go to shop, text:shop">Shop</a></li>
<li><a href="https://github.com/blog" data-ga-click="Footer, go to blog, text:blog">Blog</a></li>
<li><a href="https://github.com/about" data-ga-click="Footer, go to about, text:about">About</a></li>

</ul>

<a href="https://github.com" aria-label="Homepage" class="site-footer-mark">
  <svg aria-hidden="true" class="octicon octicon-mark-github" height="24" title="GitHub " version="1.1"
viewBox="0 0 16 16" width="24"><path d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 0.4 0.07 0.55-0.17
0.55-0.38 0-0.19-0.01-0.82-0.01-1.49-2.01 0.37-2.53-0.49-2.69-0.94-0.09-0.23-0.48-0.94-0.82-1.13-0.28-0.15-0.68-
0.52-0.01-0.53 0.63-0.01 1.08 0.58 1.23 0.82 0.72 1.21 1.87 0.87 2.33 0.66 0.07-0.52 0.28-0.87 0.51-1.07-1.78-0.2-
3.64-0.89-3.64-3.95 0-0.87 0.31-1.59 0.82-2.15-0.08-0.2-0.36-1.02 0.08-2.12 0 0 0.67-0.21 2.2 0.82 0.64-0.18 1.32-
0.27 2-0.27 0.68 0 1.36 0.09 2 0.27 1.53-1.04 2.2-0.82 2.2-0.82 0.44 1.1 0.16 1.92 0.08 2.12 0.51 0.56 0.82 1.27
0.82 2.15 0 3.07-1.87 3.75-3.65 3.95 0.29 0.25 0.54 0.73 0.54 1.48 0 1.07-0.01 1.93-0.01 2.2 0 0.21 0.15 0.46 0.55
0.38C13.71 14.53 16 11.53 16 8 16 3.58 12.42 0 8 0z"></path></svg>
</a>
<ul class="site-footer-links">
<li>&copy; 2016 <span title="0.09880s from github-fe137-cp1-prd.iad.github.net">GitHub</span>, Inc.</li>
<li><a href="https://github.com/site/terms" data-ga-click="Footer, go to terms, text:terms">Terms</a></li>
<li><a href="https://github.com/site/privacy" data-ga-click="Footer, go to privacy,
text:privacy">Privacy</a></li>
<li><a href="https://github.com/security" data-ga-click="Footer, go to security,
text:security">Security</a></li>
<li><a href="https://github.com/contact" data-ga-click="Footer, go to contact, text:contact">Contact</a></li>
<li><a href="https://help.github.com" data-ga-click="Footer, go to help, text:help">Help</a></li>
</ul>
</div>
</div>
```

```
<div id="ajax-error-message" class="ajax-error-message flash flash-error">
  <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path d="M15.72 12.51 6.85 11.98C8.69 0.21 8.36 0.02 8 0.02s-0.69 0.19-0.87 0.51-6.85 11.98c-0.18
0.31-0.18 0.69 0 1C0.47 13.81 0.8 14 1.15 14h13.7c0.36 0 0.69-0.19 0.86-0.5S15.89 12.81 15.72 12.5zM9
12H7V10h2V12zM9 9H7V5h2V9z"></path></svg>
  <button type="button" class="flash-close js-flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
    <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M7.48 8l3.75 3.75-1.48 1.48-3.75-3.75 3.75-1.48 1.48 3.75-3.75L0.77 4.25l1.48-1.48
3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
  </button>
  Something went wrong with that request. Please try again.
</div>
```

```
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/compat-7db58f8b7b9111107fac755dd8b178fe7db0f209ced51fc339c446ad3f8da2b.js"></script>
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/frameworks-9eb0ddac6d1c94c56980360abcade2abb10d27d7880f7ee7bf6640c2c2a06fc8.js"></script>
<script async="async" crossorigin="anonymous" src="https://assets-cdn.github.com/assets/github-4ddb43ff9bf343ea4e58a83f44f72427d4c0e030722f47eb6ea4d231abfa161.js"></script>
```

```
<div class="js-stale-session-flash stale-session-flash flash flash-warn flash-banner hidden">
  <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path d="M15.72 12.51-6.85-11.98C8.69 0.21 8.36 0.02 8 0.02s-0.69 0.19-0.87 0.51-6.85 11.98c-0.18
0.31-0.18 0.69 0 1C0.47 13.81 0.8 14 1.15 14h13.7c0.36 0 0.69-0.19 0.86-0.5S15.89 12.81 15.72 12.5z"
12H7V10h2V12z"9z"></path></svg>
  <span class="signed-in-tab-flash">You signed in with another tab or window. <a href="">Reload</a> to refresh
your session.</span>
  <span class="signed-out-tab-flash">You signed out in another tab or window. <a href="">Reload</a> to refresh
your session.</span>
</div>
<div class="facebox" id="facebox" style="display:none;">
<div class="facebox-popup">
  <div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-
description">
    </div>
    <button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">
      <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path d="M7.48 8l3.75 3.75-1.48 1.48-3.75-3.75-3.75 3.75-1.48-1.48 3.75-3.75L0.77 4.25l1.48-1.48
3.75 3.75 3.75-3.75 1.48 1.48-3.75 3.75z"></path></svg>
    </button>
  </div>
</div>
```

```
</body>
</html>
/*
```

The MIT License

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*/

Copyright (c) 2004-2013 QOS.ch  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of



software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

## 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

## 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.



Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

## 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

## 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short  
notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, your program's commands  
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,  
if any, to sign a "copyright disclaimer" for the program, if necessary.  
For more information on this, and how to apply and follow the GNU GPL, see  
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program  
into proprietary programs. If your program is a subroutine library, you  
may consider it more useful to permit linking proprietary applications with  
the library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License. But first, please read  
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly



negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

---

---

Apache Toree External Dependencies:

The Apache Toree project contains several external dependencies with separate copyright notices and license terms. Your use of this bundled package is subject to the terms and conditions of the following licenses.

---

---

GNU General Lesser Public License (LGPL) version 3.0  
(plus a static linking exception)

---

---

Direct dependencies

org.zeromq:jeromq:0.3.4 -> <https://github.com/zeromq/jeromq/blob/master/COPYING> and licenses/COPYING, <https://github.com/zeromq/jeromq/blob/master/COPYING.LESSER> and licenses/COPYING.LESSER

---

---

BSD-like

---

---

Direct dependencies

org.clapper:classutil\_2.10:1.0.3 -> <http://software.clapper.org/javautil/#copyright-and-license> and licenses/LICENSE-clapper.txt  
org.scala-lang:scala-reflect:2.10.4 -> <http://www.scala-lang.org/license.html> and licenses/LICENSE-scala.txt  
org.scalamacros:quasiquotes\_2.10:2.0.1 -> <http://www.scala-lang.org/license.html> and licenses/LICENSE-scala.txt

Transitive Dependencies

jline:jline:2.6 -> <https://github.com/jline/jline2/blob/master/LICENSE.txt> and licenses/LICENSE-jline.txt  
org.clapper:grizzled-scala\_2.10:1.1.2 -> <http://software.clapper.org/grizzled-scala/#copyright-and-license> and licenses/LICENSE-clapper.txt  
org.clapper:grizzled-slf4j\_2.10:1.0.1 -> <http://software.clapper.org/grizzled-slf4j/#copyright-and-license> and licenses/LICENSE-clapper.txt  
org.scala-stm:scala-stm\_2.10:0.7 -> <https://nbronson.github.io/scala-stm/license.html> and licenses/LICENSE-scala-stm.txt  
org.scalaz:scalaz-concurrent\_2.10:7.1.2 -> <https://github.com/scalaz/scalaz/blob/series/7.1.x/etc/LICENCE> and licenses/LICENSE-scalaz.txt  
org.scalaz:scalaz-core\_2.10:7.1.2 -> <https://github.com/scalaz/scalaz/blob/series/7.1.x/etc/LICENCE> and licenses/LICENSE-scalaz.txt  
org.scalaz:scalaz-effect\_2.10:7.1.2 -> <https://github.com/scalaz/scalaz/blob/series/7.1.x/etc/LICENCE> and licenses/LICENSE-scalaz.txt  
asm:asm-commons:3.3 -> <http://asm.ow2.org/license.html> and licenses/LICENSE-asm.txt  
asm:asm-tree:3.3 -> <http://asm.ow2.org/license.html> and licenses/LICENSE-asm.txt  
asm:asm:3.3 -> <http://asm.ow2.org/license.html> and licenses/LICENSE-asm.txt

---

---

MIT license

---

---

#### Direct dependencies

net.sf.jopt-simple:jopt-simple:4.6 -> <https://pholser.github.io/jopt-simple/license.html> and licenses/LICENSE-jopt-simple.txt

org.slf4j:slf4j-api:1.7.5 -> <http://www.slf4j.org/license.html> and licenses/LICENSE-slf4j.txt

org.slf4j:slf4j-api:1.7.1 -> <http://www.slf4j.org/license.html> and licenses/LICENSE-slf4j.txt

#### Transitive Dependencies

com.lihaoyi:ammonite-terminal\_2.10:0.5.0 -> <https://github.com/lihaoyi/Ammonite/blob/master/LICENSE> and licenses/LICENSE-ammonite.txt

## 5.69 tornado 4.4.1 :1

### 5.69.1 Available under license :

From RPM File Metadata:<http://www.apache.org/licenses/LICENSE-2.0>

## 5.70 traitlets 4.2.2 :1

### 5.70.1 Available under license :

# Licensing terms

Traitlets is adapted from [enthought.traits](http://enthought.com), Copyright (c) Enthought, Inc., under the terms of the Modified BSD License.

This project is licensed under the terms of the Modified BSD License (also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-, IPython Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the IPython Development Team nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## About the IPython Development Team

The IPython Development Team is the set of all contributors to the IPython project. This includes all of the IPython subprojects.

The core team that coordinates development on GitHub can be found here: <https://github.com/jupyter/>.

## Our Copyright Policy

IPython uses a shared copyright model. Each contributor maintains copyright over their contributions to IPython. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the IPython source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire IPython Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the IPython repositories.

With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
# Copyright (c) IPython Development Team.  
# Distributed under the terms of the Modified BSD License.
```

## 5.71 wcwidth 0.1.7 :1

## 5.71.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Jeff Quast <contact@jeffquast.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 5.72 websocket-client 0.37.0

### 5.72.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some

specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and

is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

## 5.73 wget 1.11.4

### 5.73.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free

software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could



make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its

content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user

actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating

where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically



receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a

patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

## 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a

covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT

HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short  
notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, your program's commands  
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,  
if any, to sign a "copyright disclaimer" for the program, if necessary.  
For more information on this, and how to apply and follow the GNU GPL, see  
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program  
into proprietary programs. If your program is a subroutine library, you  
may consider it more useful to permit linking proprietary applications with  
the library. If this is what you want to do, use the GNU Lesser General  
Public License instead of this License. But first, please read  
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

## 5.74 yolK3k 0.9 :1

### 5.74.1 Available under license :

Copyright (c) 2007,2008,2009,2010,2011,2012, Robert Cakebread  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,  
this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2016 Cisco Systems, Inc. All rights reserved.